Toluene Sales Policy Set —Page 3

# Oil, Paint and Drug Reporter

*The Chemical Market Authority Since 1871*

ABC

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# Oil, Paint and Drug Reporter

*Founded 1871 by William O. Allison* *Published by Schnell Publishing Co., Inc.*

Vol. 149 No. 7 New York 7, N. Y. February 18, 1946

## Federal Insecticide Bill Hearings February 19

*OPD Washington Bureau*

The house committee on agriculture will resume its hearings February 19 on the Flannagin bill (H. R. 4851) for the regulation of the marketing of economic poisons and devices, it is announced by the committee.

The purpose of Tuesday's session will be largely to receive a report of the task committee appointed during the hearings last week to work out amendments to the legislation that would meet the various objections raised by industry against the bill. Committee attaches said that satisfactory progress had been made this week in reaching agreements on the changes, but that a further meeting will be held Monday for final approval of the revisions.

The changes proposed relate to the language of the bill for the most part rather than to questions of policy, and it has been the endeavor of the task committee to change the wording so that there will be no question of the intent of the law. One example has to do with the section relating to the investigation of books and records. It has been agreed to change the language of this section to make certain that the authority of the government agents to examine the books of manufacturers extends only to data on shipments, etc., and does not include "all transactions" in the article as first proposed.

The question of whether the provisions of the bill are to be broadened to give the Secretary of Agriculture authority to prohibit entirely the distribution of rodenticides which are highly toxic to humans, such as the new rat-killer 1080, is a question that will be left to the congressional committee itself. Representatives of the Department of the Interior have urged that such authority be contained in the legislation, but the Department of Agriculture and representatives of industry have opposed it.

## Acetylene Black Surplus Of DPC Offered for Sale

*OPD Washington Bureau*

The government's supply of acetylene black, amounting to more than 3,250,000 pounds, was declared surplus this week by Defense Supplies Corporation and turned over to the War Assets Corporation for disposal.

This material, which was used in the manufacture of batteries for the signal corps of the army during the war, was accumulated with the close of the war and the sudden ending of the many contracts the corps had with the battery manufacturers. The material is of Canadian origin, since no acetylene black was manufactured in this country during the war, although it was recognized as a far superior product for battery manufacture than other types of black.

Most of the inventory is located in Ohio. There are three lots in various sections of the State totaling 3,286,000 pounds. Another 8,573 pounds is located in New York. There have been some indications that the Canadian producer might be willing to repurchase the black. Under the law the War Assets Corporation will have to offer it to the trade generally, however.

## Ammonia Sulphate Wanted by UNRRA

The Procurement Division of the Treasury has contracted for the purchase of 5,000 tons of ammonium sulphate for the account of the United Nations Relief and Rehabilitation Administration, and is in the market for an additional 5,000 tons for the same purpose, it is announced by officials of the division. Details on deliveries, prices and the sources from which the material is being obtained will not be divulged, however, until the transaction has been completed.

## *Soybean-Olive Oils Pact with Greece*

The Department of Agriculture has announced that 3,000 metric tons of soybean oil will be allocated for export to Greece as a result of assurances received from the Greek government that export permits will be granted for an equal quantity of olive oil for importation into the United States. An emergency allocation of 1,500 tons of soybean oil is being made for the January-March quarter with the balance of 1,500 tons to be allocated for the April-June quarter.

## Citronella Oil Held To Be Duty-Free

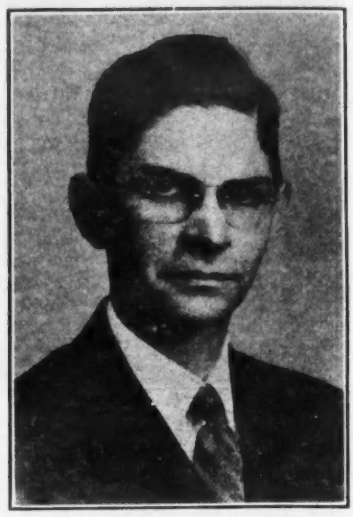
That citronella oil diluted or adulterated by the addition of a quantity of petroleum distillate has not lost its identity for tariff purposes and therefore may be imported free of duty, was decided by the United States Customs Court in a decision last week favoring the Procter & Gamble Manufacturing Company, Cincinnati, Ohio.

The Procter & Gamble Company claimed that the oil as imported is commercially known and accepted in the trade and commerce of the United States as citronella oil; that it is a physical and not a chemical mixture, and that the presence of the petroleum distillate has not changed its name or use as citronella oil.

The company further contended that under no circumstances could the classification be sustained, since it applies only to perfume materials and the record established that this citronella oil was not a perfume material; that should claim under paragraph 1731 be denied, then it must fall under the provisions of paragraph 1558 as an unenumerated manufactured article.

The government contended that the imported merchanising was a combination or mixture containing essential or distilled oils and was a perfume material dutiable as assessed under the provision of paragraph 60. It was further contended that the company had failed to establish a commercial meaning for citronella oil different from the common meaning and had failed to establish that oil such as that imported was commercially known as citronella oil.

## *Advanced by Wyandotte*



L. D. Dodson, manager of the department of public business for Wyandotte Chemicals Corporation, Wyandotte, Mich., has been named director of the company's calcium chloride sales. He succeeds Jerome H. Remick, jr., who has joined the sales staff of E. and F. King & Co., Wyandotte's representative in Boston, Mass.

## Cassia Packer Acceptance Restrictions Withdrawn

*OPD Washington Bureau*

Government restrictions on packers' acceptances of cassia, an imported spice distributed in this country as cinnamon, have been withdrawn by the Department of Agriculture as of January 1, 1946. The action was effected through an amendment to the controlling order WFO-19, and was taken to permit an unrestricted flow of the spice from importers to packers.

Before the war most of the cinnamon used in this country was actually cassia imported from China. Shipments from Chinese sources were recently resumed. The national supply is still short, however, and the amount available for import has not yet been ascertained. It will, therefore, be necessary, the department said, to retain present quotas on packers' deliveries to the wholesale trade. These quotas are set at 25 percent of 1941 quarterly deliveries.

## Wage-Price Policy Revised by President

*OPD Washington Bureau*

President Truman established, February 14, a new national wage-price policy to permit wage and price increases "within certain limits."

At the same time he re-established the Office of Economic Stabilization, with Chester Bowles as director. Paul A. Porter, Federal Communication Commission chairman, succeeded Mr. Bowles as administrator of the Office of Price Administration.

Although Mr. Bowles' new office is still lodged within the Office of War Mobilization and Reconversion, the executive order gives him "full authority to issue such orders and directives as may be necessary, in his judgment."

The President authorized the National Wage Stabilization Board to approve wage increases "if consistent with the general pattern of wage agreements in the industry or area since V-J Day.

The President emphasized that if the general price level was to remain stable in the next few critical months, "price relief must be conservatively appraised," but added that this price relief must be sufficient to assure profitable operations in industry.

The new executive order provides a method of adjusting price ceilings. The price administrator is permitted, in the case of an industry which is in a position of hardship as a result of approved wage increases, to make certain adjustments in ceiling prices, when the administrator finds that the industry's ceiling prices will leave it in an overall loss position. The adjustment to be provided should be such that it would permit the industry, for twelve months, to earn an average rate of profit equal to the rate of return on net worth earned by the industry in the peacetime base period applicable to that industry.

## Fertilizer Needs Stressed by Anderson

*OPD Washington Bureau*

The need for expanded use of fertilizers and liming materials by agriculture to maintain and improve the fertility of the soils was stressed by Secretary of Agriculture Clinton P. Anderson in his annual report to Congress this week.

Mr. Anderson said that although on a nationwide basis the present rate of use of lime and fertilizers is the highest in history, it is still far short of the quantity needed, and it would pay the farmers to double their 1944 uses of fertilizers and to triple their consumption of liming materials. He estimated 1944 uses of fertilizers at 85 percent above the prewar 1935-39 level while consumption of lime was approximately 170 percent greater.

The secretary devoted an entire chapter of his report on the uses of fertilizers and the desirability of consumption being expanded. No specific recommendations were made for legislation on the subject, however, and no reference was made to the pending Hill-Bankhead, Flannagan bill (S. 882) to put the government in the fertilizer business.

He did, however, say that one reason a greater quantity of fertilizer is not presently being used by agriculture is because of insufficient production and

—*Continued on page 42*

## Ickes Quits Secretary Of Interior Post

*OPD Washington Bureau*

Harold L. Ickes last week resigned his post as Secretary of the Interior, a resignation that was promptly accepted by President Truman. The President named Oscar L. Chapman, Mr. Ickes' assistant, to fill the position until a successor to Mr. Ickes could be found. The resignation was effective February 15.

# Toluene Sales Policy Set

*OPD Washington Bureau*

In a move to protect the market of toluene producers against the impact of the government's huge store of this material left over from the war, it has been agreed by War Assets Corporation to limit all domestic sales of this material by its regional offices to new uses, and as an additive or blending agent for motor fuel.

The decision of the agency, which has just been reached after several months of conferences with the Surplus Property Administration and industry, has been forwarded to all the regional offices of WAC for their guidance in conducting future sales programs.

Adoption of the policy became necessary, it was explained, because the heavy inventories of toluene in the hands of the government was a threat to the maintenance of an orderly market for this material. The government had on hand as of January 30 a total of 17,692,000 gallons of the material, or nearly a year's supply when measured by normal consumption in industrial peacetime operations.

Authority for adoption of the policy, it was explained, rests in the provisions of the Surplus Property Disposal Act which sets out as among its objectives the disposal of surplus government property in such a manner as to avoid dislocations of the domestic economy and to foster the development of new enterprise.

The instructions that have been forwarded to the directors of the regional offices contain four specific provisions on sales policy:—

(1) Surplus toluene stocks are not to be sold for domestic consumption for current industrial uses which are already established. These current uses are stated as being (1) as a thinner in the paint, lacquer and varnish industries; (2) in the manufacture of benzoic acid, benzaldehyde, explosives, dyestuff intermediates.

(2) Surplus toluene stocks may be sold for new industrial production uses provided the purchaser certifies on his order as follows:—"The purchaser certifies that this toluene is purchased for a new use for which neither toluene, solvent naphtha, or xylene have been used."

(3) Surplus toluene stocks may be sold for export if the purchaser certifies on his order that the toluene covered by the order will be exported from the United States upon delivery.

(4) Surplus toluene stocks may be sold to the petroleum industry as a motor fuel additive or blending agent provided that the purchaser certifies that the material will be used solely for this purpose and will not be resold in any other form.

—*Continued on page 49*

## OPD Price Index

The OIL, PAINT AND DRUG REPORTER'S relative record of prices for chemicals and related materials is currently as follows:—

| Feb. 14, 1946 | Feb. 7, 1946 | Feb. 16, 1945 |
|---|---|---|
| 135.1 | 134.8 | 133.1 |

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

The price train last week ran upgrade on a single track with drugs, botanicals and essential oils providing the power that raised the index. Rising prices related little to the fact that the week produced the reestablishment of the Office of Economic Stabilization with the former OPA head as chief; a national wage-price policy revised upward and reported favorably to the Senate; the decision of union-owner representatives to operate New York tug boats while arbitrating the wage differences that had stagnated the harbor transportation; and a brightening outlook for settling the steel and motor car industry strikes.

The motivating force behind botanical and essential oil prices was acute scarcity of supplies and a not too favorable outlook for getting normal stocks from the crops and production in 1946. Chemical supplies remained very tight and demand for tonnage items ran strong.

## American Drug F.I. Co. Memorializes Dr. Beal

*Cincinnati, Feb.* 13, 1946

Because of the death, last September, of Dr. J. H. Beal, the American Druggists Fire Insurance Company elected a new president at its fortieth annual meeting here this week. He is J. S. Ruthledge, Akron, Ohio.

G. O. Young, Buckhannon, W. Va., who, as vice-president, was acting president during the several years of Dr. Beal's illness and since his death, desired to be eased of the extra duties—in addition to operating a wholesale and retail drug business. He remains vice-president of A.D.F.I. He is also a member of the West Virginia senate. The other officers re-elected are:—Treasurer, Walter Rothwell, Hatboro, Pa.; secretary, W. P. Stachey, Cincinnati.

David P. Pickrel, general counsel of the company, was elected a director to fill the vacancy created by the death of Dr. Beal. The other fourteen members of the board were re-elected.

The reports presented at the business sessions of stockholders and directors showed a gratifying continuation of the steady growth which has characterized the company's operations.

No special observance of the fortieth anniversary was made. The annual dinner, last night, was devoted to the memory of the late Dr. J. H. Beal. Tribute was paid to him by Mr. Young and by Russell D. Rainey, publisher of the *Southeastern Druggist*, Atlanta, on "Dr. Beal as an Inspiration"; Dr. William C. Anderson, Brooklyn, N. Y., on "Dr. Beal as a Pharmacist and Business Associate," and Hugh Craig, editor of OIL, PAINT AND DRUG REPORTER, on "Professor Beal —Outdoorsman."

## Crosby Naval Stores Changes Corporate Title

Crosby Naval Stores, Inc., Picayune, Miss., has changed its name to Crosby Chemicals, Inc., with no change in either the management or policy of the company. Lieutenant R. H. Crosby, jr., recently discharged from the army, has returned to the company as executive vice-president, and Lieutenant Col. Joe B. Dale, discharged from the Air Corps, has rejoined the firm as sales manager.

Completion of the company's new plant at DeRidder, La., which will boost production to 100,000 tons annually, is expected in three to four months.

# Obituaries

### Francis G. Allen

Francis G. Allen, a sales executive for the General Aniline & Film Corporation, New York, died February 7 in Hartsdale, N. Y. He was forty-

Francis G. Allen

eight years old. Mr. Allen was director of promotion of sales of products other than dyestuffs and allied products. During the war he was with the Aluminum and Magnesium Division of the War Production Board.

### Kenneth E. Burgess

Kenneth E. Burgess, paint chemist and director of technical research for the Magnetic Pigment Company, Trenton, N. J., a division of the Columbia Carbon Company, New York, died in Philadelphia February 10. He was fifty-six years of age.

### Dr. Edwin F. Gay

Dr. Edwin F. Gay, chairman of the research staff of Huntington Memorial Library, San Marino, Cal., and an associate of the California Institute of Technology, Pasadena, died February 8. He was seventy-eight years old. During the first World War, Dr. Gay was called to Washington to expedite the effective and economical distribution of commodities to the civilian population and to plan a program that would make more shipping available to the military.

### N. Arthur Laury

N. Arthur Laury, a production executive for the Calco Chemical Division of the American Cyanamid Company, Bound Brook, N. J., before his retirement in 1945, died recently in Hollywood, Fla. Mr. Laury was with the General Chemical Company from 1892 to 1927 and then became manager of Calco's acid operations. Before his retirement he had been devoting his entire time to chemical research on acids and improving the methods for their manufacture.

**Francis A. Dorr,** a glue broker associated with the Connecticut Glue Company, Danbury, Conn., for twenty-five years, died February 13 in Forest Hills, N. Y. He was seventy-eight years old.

**Searle B. Dougherty,** member of the board of managers of the Standard Oil Company of Brazil, died February 13 in Rio de Janeiro. He was forty-seven years old.

**Owen M. Flannery,** for twenty-five years an engineer with the Standard Oil Company of New Jersey, died February 8. He was sixty-eight years old.

**Miss Dorothy E. Hendrickson,** assistant treasurer of Buffington's, Inc., pharmaceutical manufacturer, Worcester, Mass., died recently.

**Dr. Edward W. Koch,** dean of the University of Buffalo medical school, and pharmacologist for the Eli Lilly & Co., pharmaceutical manufacturer, Indianapolis, from 1915 to 1918, died February 9. He was sixty-four years old.

### Edward T. Longstreth

Edward T. Longstreth, president of the Samuel H. French Paint Company, Philadelphia, died February 9 in that city. He was seventy-four years of age. Mr. Longstreth has been associated with the company for fifty-five years.

### Emil H. Schellack

Emil H. Schellack, vice-president and director of sales for the Upjohn Company, pharmaceutical manufacturer, Kalamazoo, Mich., died February 12. He was sixty-one years of age. He

Emil H. Schellack

joined the Upjohn Company in 1919 as a salesman and was named assistant sales mangare at Kalamazoo in 1930. He was advanced to assistant director of sales in 1941, general sales manager in 1942, and vice-president and director of sales in 1943.

**Mrs. Meta M. Janeway,** widow of John H. Janeway, formerly a mining engineer with the New Jersey Zinc Company, died February 14 in New York. She was eighty-seven years old.

**John W. O'Leary,** president of the American Enterprise Association, and former president of the United States Chamber of Commerce, the Chicago Association of Commerce, and the National Metal Trades Association, died February 8 in Chicago. He was seventy years old.

**Mrs. L. Belle Snow,** mother of R. K. Snow, assistant manager of pharmaceutical sales for the Dow Chemical Company, Midland, Mich., died in her home in that city, February 6, in her ninety-first year. Mrs. Snow, nee Swarthout, was a native of Utica, N. Y. Her husband, Orrin J. Snow, wholesale druggist in Syracuse, died in 1903. Besides her son, four grandchildren survive:— Palmer, Orrin, Lieut. Brook, and Seaman 1/c Kent Snow.

**Dr. Walter P. White,** a physicist specializing in heat measurement, with the Carnegie Institution until his retirement in 1935, died recently in Washington. He was seventy-eight years old.

# Late Markets

### *Distilled Ginger Oil Lower*

A few price declines occurred in the market for essential oils late in the week. Spot price for distilled ginger ranged from $11 to $12.50 per pound. Lavadin was quoted at $6 per pound, while California and Brazilian orange oil were easier at $1.30 and $1.55 per pound, respectively. Quotations for origanum oil, Spanish, was higher at $2.85 per pound.

### *Fertilizer Shortages Emphasized*

Heavy demand for fertilizer materials has created severe shortages of stocks in out-of-town markets. Baltimore reports short shipments of phosphate rock. Los Angeles notes a severe scarcity of all agricultural materials. Chicago reports firm markets with offerings limited.

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## Lead Ceiling Raise Request Rejected

*OPD Washington Bureau*

Requests of the mining states for an increase in ceiling prices on lead on the grounds that such action would encourage production of the metal and prove less costly to the Treasury Department in the long run have been rejected by Stabilization Administration, it was announced February 11.

Stabilization Administrator John C. Collet said in a formal announcement that the government will maintain present ceiling prices on lead. The action, he added, was taken with the concurrence of the Office of War Mobilization and Reconversion, the Office of Price Administration and the Civilian Production Administration.

Reports have been widespread in recent weeks that an increase in lead prices is imminent. Mr. Collet said that the government agencies concerned believe that the present lead price structure, together with the existing premium price plan applying to copper, lead and zinc, provides adequate facilities for obtaining maximum production of lead.

The present ceiling price of primary lead, common grade, for delivery in New York, is 6½ cents a pound.

Legislation to continue the premium price plan on these metals for another year beginning June 30 and provide for an increase in the ceiling prices, meanwhile was introduced in the house February 12 by Representative John R. Murdock of Arizona. The bill (H. R. 5457) is similar to legislation also being sponsored in the senate by a group of mining state senators.

Under existing law the premium price plan expires on June 30, next, unless extended by law. The bill would continue the payments at their present rate for another twelve months' period. In addition it provides for increasing the price ceilings about 60 percent of the premium prices being paid.

## Inflammable Textiles Shipping Control Asked

*OPD Washington Bureau*

A bill was introduced in the house, February 11, by Representative J. Leroy Johnson of California to prohibit the interstate transportation of inflammable textiles as a result of several tragic deaths from burns suffered by children recently. The bill (H. R. 5445) is similar, Mr. Johnson said, to a law passed recently in California "which has worked very well."

The bill defines an inflammable textile fabric to mean "any textile fabric of combustible fibers which have a nap or pile and which flash or burn in horizontal position with the nap or pile on the upper face at greater average rate than 1 inch per second, the size and condition of samples and method of texting to be in accordance with the procedure prescribed in National Bureau of Standards Letter Circular No. 818 on flame-proofing of textiles."

Whoever violates the provisions of the act would be subject to a fine of not more than $500 or imprisonment of not more than six months, or both. The law would be enforced by the Department of Justice through court injunctions against anyone engaging or planning to engage in the shipment of such fabrics.

## Pipelines Disposal Delay Favored by Senate

*OPD Washington Bureau*

The senate passed a resolution (S. J. Res. 140) last week, directing the Reconstruction Finance Corporation to hold up the disposal of the Big and Little Inch piplelines for another thirty-day period, pending further hearings on the matter by the special petroleum investigating committee.

Under the surplus property act, the RFC is free to dispose of the lines upon the lapse of thirty days after filing a report with Congress on its disposal plans. This thirty-day period expired February 13 and the resolution just passed extends the time to March 15.

At the RFC it was said that no plans yet have crystallized for disposing of the lines, although it has been disclosed that at least three groups have been formed who are interested in acquiring the lines for the transportation of natural gas.

# Washington Talks It Over

### Observations • Prognostications • Developments

*By OPD Observer*

Congressional consideration of the proposed loan to Great Britain promises to be one of the most controversial issues of the year, although there appears to be but little doubt at this time that the loan will be approved. Present indications are that it will not be a political issue, however, and voting will not be along strict party lines. Whatever splitting of ranks occur will be the result of deep seated convictions of the members, either that the loan is unnecessary and should not be made or that unless this aid is extended to Britain the prospect of an early restoration of a permanent state of peace and prosperity throughout the world is unthinkable.

Much spade work has been done in the Administration since President Truman submitted his request for the $3,750,000,000 loan to prepare for the opposition that will develop when hearings get underway before the senate and house banking committees. The most interesting of the various exhibits to be presented in defense of the loan will be an outline picture now being worked up by Secretary Wallace showing just how the benefits of the loan will be felt industry by industry.

Although there are no assurances of how Britain intends to spend the money, there are certain assumptions that can be made by trade experts on the basis of the needs of Britain which they feel can be related to industries here. In addition to heavier purchases of foods from the United States, they see a big market which might not otherwise be there for fertilizers, chemicals, railroad and transportation equipment and power equipment. Failure of the loan to be approved, they warn, will hasten the time when these industries will face the problem of surpluses.

### Chemicals and Steel

The effect of the steel strike on the chemical industry in reducing the output of coaltar products and other items flowing from steel operations to a dribble, has raised some real problems for the Civilian Production Administration, but there isn't much that the agency can do to help the situation. All the reports that the agency might tighten inventory requirements on certain chemicals or put some of them back under allocation is unfounded. The agency has no such intentions.

A look at the situation from the realistic side of the picture is all that is necessary to see why the agency can't do anything. In the first place the strikes and general unsettled conditions over wages and price policies has slowed down production almost to a standstill so that the demand for chemicals is down. In the second place there is no evidence of excess accumulations of inventories either by producers or users, and who is to say in peace times that one industrial user is to be favored over another.

The real worries of the CPA will come later when the strikes have ended and industry really gets to booming. Then is when the demands are going to skyrocket and create shortages and raise the question of returning scarce materials to allocation. But again, the question arises as to how one industry can be favored over another in peacetime.

### Panacea to End Panacea

A panacea to end all panaceas might well be the title to a bill just introduced in the house by Representative Robert Sikes of Florida. He is proposing that the Federal government dig into its apparently bottomless treasury to lift every county in the nation back on its feet economically.

It is his view that the effects of the war of forcing an industry to close down because of lack of natural resources or otherwise, and the shifting of labor to other areas where the pay might have been better is a federal problem that should be dealt with accordingly. He wants the government to finance a program of promotion, research, advertising and other activity to make the counties of each state self-sustaining through industrial utilization of the resources and labor either by restoration or expansion of existing industries or the development of new industries.

It would seem that the local and state chambers of commerce could do the same thing and at much less cost to the taxpayers.

### Chemical Statistics

More interest has been indicated in the chemical statistics and data collected during the war by the War Production Board than in any other one line of industrial activity. At least fifty percent of the requests submitted to the government for publication of this wartime statistical information had to do with the chemicals under allocation.

The job of tabulating and analyzing these requests is now well underway at the Bureau of Census where officials say that they are going to do their best to get out the data that has been asked for. They are even going to try to do the biggest of the jobs asked of them—that of showing the end-use pattern of the allocated chemicals.

It isn't likely that this can be done for all of the chemicals that were under allocation simply because the bureau hasn't got the time, staff, nor money for such an undertaking. It involves going through all of the various reports filed by consumers during the whole period the chemicals were under allocation which would be an almost endless task. But they are going to try it for a few of the more important chemicals and will start getting out some of the reports soon. The first three to be tackled will be formaldehyde, benzol and anilin.

### Soap Makers Complain

The small soap manufacturers are complaining again over what they contend is an inequitable distribution of scarce fats and oils by the Department of Agriculture. They are charging that the present regulations of the department operate to the detriment of small manufacturers while favoring a few large concerns.

At the bottom of the situation is an apparent disagreement between the department and the little manufacturers over the basic question of whether there is a shortage of fats and oils, as the department contends. The little fellows say there is no shortage other than that which the department makes itself by reason of denying them the right to go out and buy whatever fats and oils they want to make soap. The quota system is unnecessary, they argue, and it only tends to favor the big concerns in its operation.

The prospects are that a congressional investigation into the situation will be forthcoming. Patman's little business committee already is making some preliminary investigations of the charges.

### Tin Mill Products

The CPA's directive last week to restrict the use of tin mill products to a few specific uses is about as far-reaching as any of the restrictions placed upon the use of this metal during the wartime period. About the only industries that will be allowed to continue the use of tin will be the packers of perishable or seasonable food products, drugs, medicals, biologicals and products to be delivered to certain government agencies.

The reason for the drastic order is the fact that the supply of tin in this country is lower than at any time during the war, and prospects are not good for this situation being corrected at an early date, in spite of the ending of the war. Down in Bolivia the output of tin is being obstructed by a shortage of construction materials, and it has become necessary for the government to make emergency shipments of lumber to this country for use in the mines. In the Malay Straits the

—Continued on page 74

## Chemicals GMPR Standards Liberalized

*OPD Washington Bureau*

Liberalization of standards under which individual adjustments are granted manufacturers of chemicals and drugs whose ceiling prices are frozen at March, 1942, levels under the General Maximum Price Regulation has been announced by the Office of Price Administration.

This action—Amendment 45 to Supplementary Regulation 15 to General Maximum Price Regulation, effective February 19, 1946—is taken to align the hitherto tighter standards for these particular commodities with the overall adjustment policy of the agency.

The action applies only to products under the chemicals and drugs price adjustment provision (Sec. 18 of Supplementary Regulation 15) which covers most chemicals. There are a number of chemicals which are not affected, and are subject to specific regulations and pricing provisions. The principal changes are:—

(1) Relief formerly limited to the net amount of the applicant's increase in factory costs since March, 1942, is liberalized to allow current factory costs, current total costs, or current total costs plus base period profit margin, depending on current overall earnings of the applicant before taxes compared with 1936-39.

(2) Applicant no longer will be required to show that decreasing his costs is not a practical alternative to obtaining price ceiling relief.

(3) WPB certification is no longer required that applicant is an essential supplier.

## ADMA Contact Committee Meets

The Combined Contact Committee of the American Drug Manufacturers Association and the American Pharmaceutical Manufacturers Association at a meeting in the Hotel Pennsylvania, New York, February 13 and 14, discussed the forthcoming revisions of the United States Pharmacopoeia and the National Formulary, as well as the work of a number of special subcommittees. Recommended changes involved slight alterations.

Resolutions were adopted for transmittal to the pharmacopoeical revision authorities relative to the committee's recommendations for tolerances for the weight of solids when packaged in ampuls, and relative to the general notice about the presence of ingredients that might interfere with the assay.

Special sub-committee reports included a final report on synthetic rubber closures, and progress reports on a variety of subjects such as tolerances for filled capsules, weight variation of tablets, tablet disintegration, the assay of camphor, metric equivalents, and the testing of parenteral solutions for clarity.

While the supply of natural rubber has eased, the recent shortage stimulated studies of synthetic rubber closures that have resulted in the accumulation of much valuable data. The study of tablet disintegration combines the problem of developing a simple, easily reproducible test, and the definition of suitable disintegration rates. In recognition of the expanding use of the metric system by the medical profession, approval was given to the principles embodied in the proposed pharmacopoeical table that lists commonly used dosage amounts in round figures in the metric system, these figures accompanied by approximate apothecary equivalents.

Approximately 70 members and representatives of the official compendia attended the meeting.

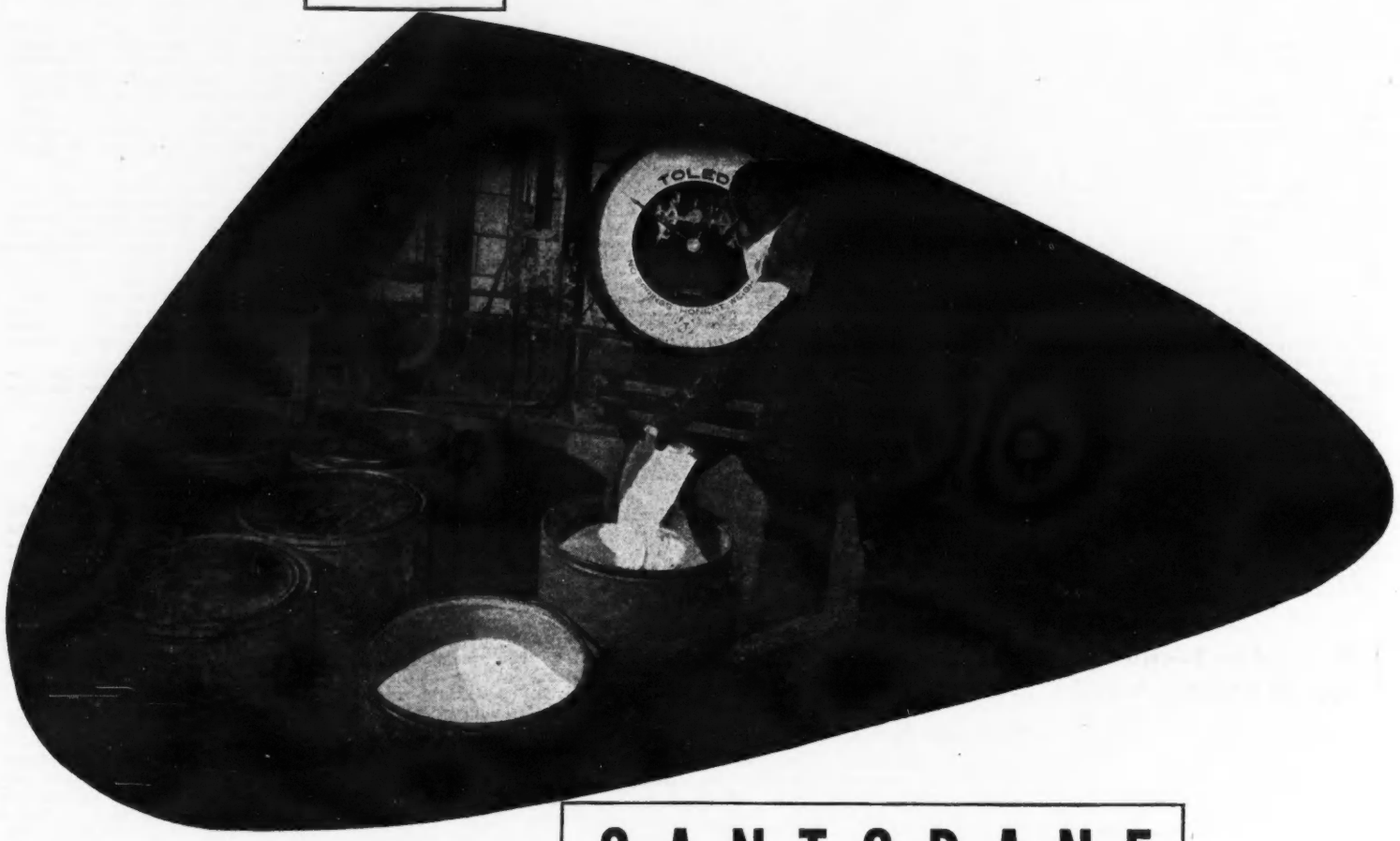
## Inflammable Liquids Labeling Discussed

*OPD Washington Bureau*

Hearings were held in Los Angeles this week on the proposed regulations of the California Accident Committee on the labelling of inflammable and poisonous liquids. The regulations, which were proposed more than a year ago, were drafted in cooperation with the chemical industry.

Further hearings will be held in San Francisco and later next week The committee will return to Los Angeles for the final sessions. Warren Watson, Washington representative of the Manufacturing Chemists Association, is attending the hearings on behalf of the chemical industry.

for your **DDT** formulations



# SANTOBANE

**(Monsanto's Dichloro-Diphenyl-Trichloroethane, Technical)**

If you are developing or manufacturing formulations containing DDT, you are invited to contact Monsanto as a source of supply.

Santobane* — Monsanto's Dichloro-Diphenyl-Trichloroethane, Technical — is the subject of continuing research on the extensive possibilities of this potent insecticide in the control of household pests, as well as in the control of numerous insects that destroy plant life.

Available information on Santobane will be gladly furnished. Write: MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, 1700 South Second Street, St. Louis 4, Missouri.

*Reg. U.S. Pat. Off.

MONSANTO CHEMICALS

SERVING INDUSTRY...WHICH SERVES MANKIND

## Agriculture Residues Used for Motor Fuels

*OPD Washington Bureau*

A process for the chemical conversion of such agricultural residues as corncobs. sugarcane bagasse, peanut shells, flax shives, oat hulls and cottonseed hulls and burs into liquid motor fuel is moving into large pilot-plant production at the Peoria, Ill., regional research laboratory of the Department of Agriculture, according to the annual report of Secretary Clinton Anderson made public February 17. Results of experimental tests indicate that from 90 to 95 gallons of liquid motor fuel can be obtained from a ton of corncobs or cottonseed hulls, and that half of this is in the form of ethyl alcohol.

A continuous process for the treatment of corncobs and cottonseed hulls has been worked out, the report said, and a suitable building is now being constructed and equipped on the laboratory grounds. Corncobs will be the first of these so-called waste materials to be tried on a large scale in the new semiworks plant which should be in operation in the early part of this year. Research on the other residues will be started later as the work progresses.

Mr. Anderson estimated that about 200,000,000 tons of farm wastes are produced each year. Much of this is plowed back into the soil to help maintain fertility and prevent erosion, but after this is done something like 100,000,000 tons is left that might be available for use in making motor fuel under the new process.

## Airosol Names Goodhue Technical Director

Lyle D. Goodhue, inventor of the aerosol method of applying insecticides, has been made a director of research with Airosol, Inc., Neodesha, Kans. He will supervise the development and entomological testing of new products, including aerosols, sprays, dusts and repellants.

Airsol, Inc., then operating as Midwest Engineering & Tool Company, was a supplier of aerosol insecticide bombs to the U. S. Army during the war. Since the termination of war contracts it has been manufacturing the Army type bomb for civilian distribution.

Dr. Goodhue, a graduate of Iowa State College, spent a year with E. I. du Pont de Nemours & Co., Wilmington, Del., working on furniture laquers. Since 1934 he has been engaged in insecticidal research in the Beltsville, Md., laboratories of the Bureau of Entmology and Plant Quarantine of the U. S. Department of Agriculture.

## Coal Chemical Study Advocated by Wilson

A plea for concentrated research in the coal chemical industries was made by P. J. Wilson, jr., of the Mellon Institute of Industrial Research at a recent meeting of the Blast Furnace and Coke Association of the Chicago District.

The problems in the coal chemical fields are particularly tough, he said. and solutions will not be achieved quickly or easily, but there is every reason to expect that earnest work on them will prove as beneficial in the future as it has in the past.

Mr. Wilson advised aggressive research along the following lines: development of new or improved methods for recovery of individual products from tar at lower costs; increase in the quality of existing tar products, and developments of uses for the tar compounds or fractions, either new and broader applications for the products themselves, or synthesis from them of derivatives which can find application in industry.

## Sinclair to Enlarge Research Facilities

The Sinclair Oil Corporation, New York, plans immediate construction of a petroleum research laboratory in Harvey, Ill. to provide enlarged quarters for research and development department, which will be moved from the Chicago area. When the project is completed, the size of the present laboratories will be practically doubled.

# Chemical Exposition to Open In New York Feb. 25

The twentieth chemical exposition will open at Grand Central Palace, New York, on Monday, February 25, at 2 p.m. It will be open daily thereafter from 11 a.m. until 10 p.m., except Saturday, March 2, when it will terminate at 6 p.m.

Visitors to the exposition will be registered at the door upon presentation of invitations or credentials showing professional or business connections entitling them to the privileges of the floor. The general public will be excluded. Among the exhibitors are:—

**Alien Property Custodian**—This display will consist of abstracts of all vested chemical patents, specially prepared subject lists in several important fields of chemistry, catalogues, indexes and descriptive literature. Attendants at the booth will be Julian E. Jackson, Violet R. Roncace, Edward A. Ribal, John A. Rutherford and Dexter North.

**Aluminum Company of America,** Pittsburgh, Pa.—This display will consist of all forms of metallic aluminum and its alloys, including sheet, plate, wire, rod bar, rolled shapes, tubing, pipe, fittings, rivets, forgings, castings, foil, caps, seals and powder, chemical products including aluminas, hydrates and fluorides. Attendants at the booth will be R. M. Beck, R. C. Bradbury, C. D. Brown, R. H. Brown, W. R. Bushnell, A. C. Cooper, F. W. Conrade, M. W. Dougherty, R. V. Davies, W. O. Gairns, R. E. Hamilton, N. J. Hammond, S. H. Knowlton, R. A. Keenan, E. G. Kort, M. R. Kambaugh. H. P. Bonebrake, F. G. Lancaster, F. R. Marshall, H. C. McArt, R. F. Miller, A. R. Pickett, E. M. Strauss, Dr. P. T. Stroup, R. L. Schmidt, J. B. West, A. H. Woollen, C. A. Yeaton, C. B. Fox, J. R. Eckley, R. B. Whidden, R. B. Derr, L. A. Mapes, R. L. Hoye.

**Amecco Chemicals, Inc.,** Rochester, N. Y.—This display will consist of various synthetic organic chemicals produced by this company, including plasticizers and chlorinated paraffins used in protective coatings and in fire retardant compositions for textiles, wood and paper. Attendants at the booth will be Jacob T. Crosby and Walter E. Scheer.

**American Institute of Chemists,** New York—This display will consist of copies of "The Chemist" and also reprints of the various committee reports on matters of direct interest to the professional chemist. Attendants at the booth will be Dr. G. Egloff, Dr. Donald Price, Dr. L. Van Doren, Dr. F. A. Hessel, A. S. Schroder, Miss V. Kimball, Mrs. C. Dunlap and Mrs. C. Armbrister.

**American Smelting & Refining Company,** New York—This exhibit will include a display of actual apparatus for the chemical industries, including all types of fittings and valves made from lead pipe, expanded lead-lined steel pipe, homogeneous lead-lined steel pipe. Also included will be scale models of sheet lead-lined tanks, and homogeneous lead-lined tanks. Attendants at the booth will be A. P. Knapp, T. E. Dwyer, J. E. English and R. T. Jaeger.

**Ansul Chemical Company,** Marinette, Wisc., Booth No. 82—This display will consist of two main products, liquid sulphur dioxide and liquid methyl chloride and their many industrial uses will be featured. Attendants at the booth will be C. V. Mars, William R. Rinelli, A. O. Wingender, R. J. Yaeger and R. E. Thompson.

**Atlas Powder Company,** Wilmington, Del., Booths Nos. 46-47.—This display will consist of chemicals. industrial finishes, coated fabrics and explosives. Attendants at the booths will be J. R. Frorer, K. R. Brown, R. S. Rose, W. C. Griffin, G. J. King, L. G. Parkinson, M. D. Brewster, F. Pierce, J. T. O'Gorman, L. J. Paterson and W. C. Manning.

**Bareco Oil Company,** Tulsa, Okla., Booths Nos. 629-630.—This display will consist of high-melting point microcrystalline waxes. Attendants at the booths will be Messrs. Wiles, Evans, McKenna and Clary.

**Barnstead Still & Sterilizer Co.,** Boston, Mass.—This display will consist of Barnstead Water Stills featuring new-type automatic controls, the new Barnstead Bantam Demineralizer and the new special Four-bed Unit for special demineralizing use. Attendants at the booth will be A. White, vice-president; D. G. Miller, J. M. Masselli and Norman Meyer.

**Carborundum Company,** Perth Amboy, N. J.—This display will use illuminated signs to illustrate the different types of applications for their products in the process field. In addition, there will be a variety of refractory shapes on display. Blow-ups of drawings showing these materials applied to certain kinds of units will be on exhibit. Attendants at the booth will be C. E. Hawke, J. G. Fritzzinger, S. A. Fenno, A. A. Turner and J. M. Smith.

**Carpenter Container Corporation,** Brooklyn, N. Y.—This display will consist of several new types of fibre drums suitable for food products.

**Chemists' Club, New York,** Booth No. 10—The Chemists' Club has set aside this booth as a lounge for its members. There will be no exhibits by the club.

**Container Company,** Van Wert, Ohio—This display will consist of a complete line of fibre shipping drums and small paper containers with special linings and treatments for shipping and storing chemicals, pharmaceuticals and allied products. Attendants at the booth will be C. E. Eggeras, H. M. Walter, D. C. Eldredge, D. S. Thompson, J. V. Reinhart, C. B. Pearsall, D. F. Burrill and L. A. Dockstader.

**Darco Corporation,** Wilmington, Del., Booth 47—This display consists of the widely-known use of Darco activated carbons for removal of unwanted colors, odors and colloids from chemicals, sugars, water, etc., and its new uses.

**Eimer & Amend,** New York—This display will consist of equipment made by Fisher Scientific Company.

**Evans Chemietics, Inc.,** New York—This display will show a new line of fine chemicals, useful as intermediates in many branches of organic synthesis. Also on display will be cosmetic preparations of all types.

**Fansteel Metallurgical Corporation,** Chicago, Ill.—This display will consist of several pieces of tantalum acid-proof plant equipment featuring a compact laboratory pilot plant intended to enable chemical engineers to make heat transfer determination for unfamiliar acid reagents.

**Fulton Bag & Cotton Mills,** Atlanta, Ga., Booth 424—This display will consist largely of printed samples of waterproof paper lined textile bags such as we are regularly supplying for various dry chemicals. Attendants at the booth will be Thomas E. Kee and J. O'H Sanders.

**General Aniline & Film Corporation,** New York—This display will consist of this company's principal products, dyestuffs, cameras, film, 'ozalid' white print machines and such specialties as carbonyl iron powder, 'Polectron' and detergents. Attendants at the booth will be William Balch, Winthrop Davenport, J. D. Titman, William Terrence, James Travis, Dr. A. L. Fox and Dr. F. M. Meigs.

**Glyco Products Company,** Brooklyn, N. Y., Booth No. 223—This display will consist of the emulsifying agents manufactured by the company, as well as 'Acrawax C', a high-melting synthetic wax. Attendants at the booth will be Edward Rosendahl, Dr. Eugene McCauliff, Dr. George H. Goodyear, Leonard S. Levitt, Elwood Clark, N. L. Dodge, Jack W. Daum, Edward Schwartz, Clyde Kishbaugh and Harry Ittner.

**W. A. Hammond Drierite Company,** Ohio—This display will illustrate many applications for Drierite, the desiccant used in industry, commerce, laboratory, and the home for drying solids, liquids, gases. Attendants at the booth will be Dr. W. A. Hammond and J. L. Ledeen.

**Hardesty Chemical Company,** New York—This display will consist of a number of products produced by this company which are used mainly as plasticizers for the vinyl resins, synthetic rubber, and other plastics and elastomers. Attendants at the booth will be Wm. Hackman, H. M. Abbott, S. J. Cohen, J. T. Crosby and W. E. Scheer.

**Hercules Powder Company,** Wilmington, Del.—This display will depict the many end uses for chemicals which they supply industry. Technical representatives from all Hercules op-

*—Continued on page 44*

## Industrial Application Of Chemicals

***"Where You Can Sell"***

***Fully Protected by Copyright***

### Calcium Chloroacetate

**Insecticide and Fungicide**—Toxicant for brown and red locusts (scientists of the Department of Agriculture and Forestry, Union of South Africa, state it is less toxic than sodium arsenite).

### Polydecamethylene Sebacamide

**Textile**—Claimed (Brit. 544310) as fiber-forming linear polymide.

### Stilbazole

**Resins**—Heat-stabilizer (U.S. 2260-420) for acrylate resins containing vinyl chloride-alkyl acrylate interpolymers.

### Sodium Tetraiodoisophthalate

**Pharmaceutical** — Claimed (U.S. 2247880) as nontoxic, soluble, x-ray contrast agent.

### Tellurium Trimethyliodide

**Photographic**—Inhibitor (U.S. 2238-631 and 2238632) of yellow fog in silver halide emulsions.

## FDA Streptomycin Sales Policy to Be Studied

*OPD Washington Bureau*

Members of the American Drug Manufacturers Association interested in the production of streptomycin will meet here next week to discuss the conditions that have been laid down by the Food and Drug Administration under which the government will permit sales of the drug under the new drug provisions of the food, drugs, and cosmetic act, it was announced by Carson Frailey, executive vice-president of the ADMA.

The methods by which distribution of the new drug is to be controlled by the government have been under discussion by the agency with members of the industry for several weeks. The industry has urged that streptomycin be considered just as any other new drug by the government and be subject to regulation under the new drug provisions of the law.

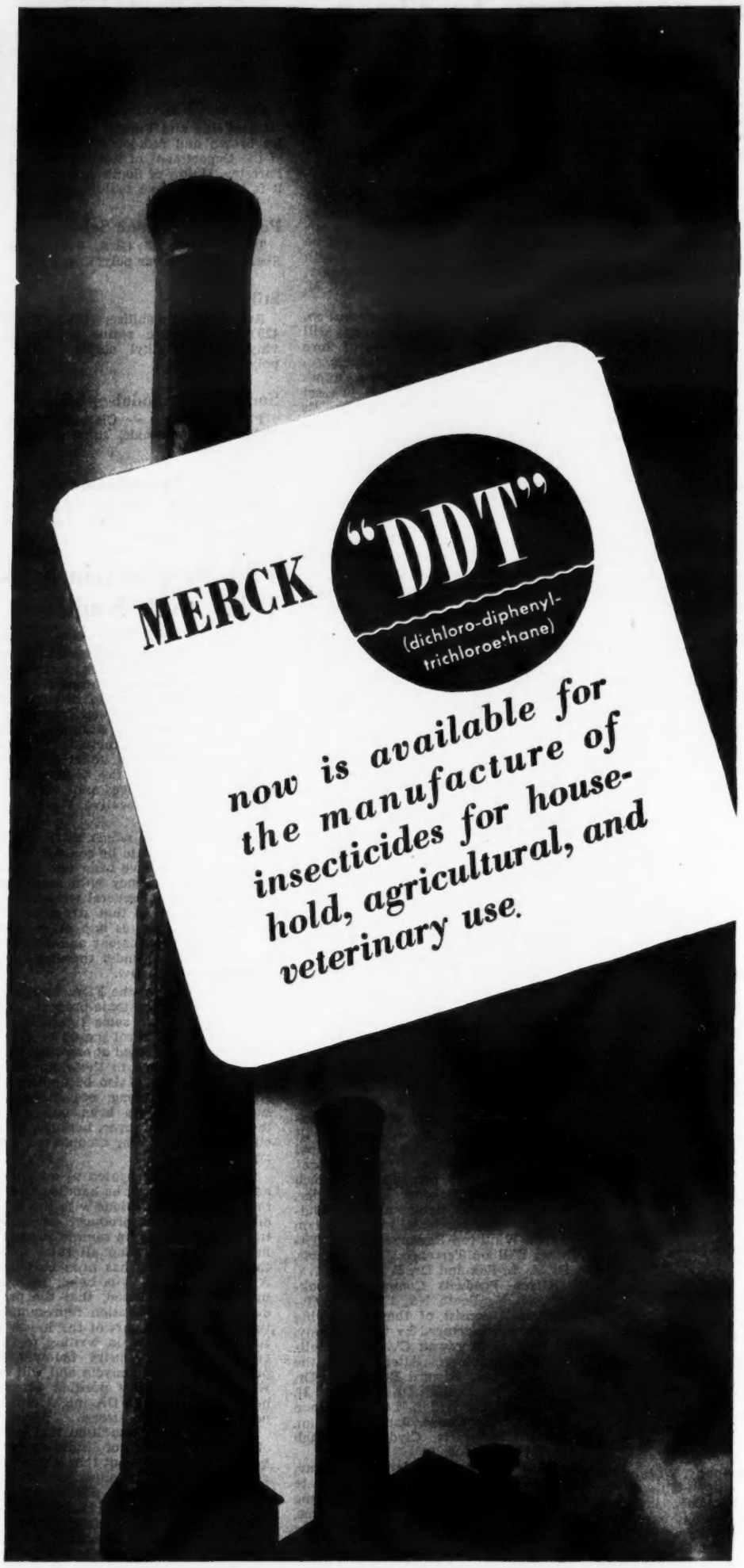
It is the view of the FDA, however, that because of the toxic properties of the new drug that some tighter form of government control should be exercised. It was proposed at one time that regulations similar to those now applying to penicillin also be applied to streptomycin. Strong objections to such procedure has been voiced by the producers, however, because, they claim, of the excess amount of red tape involved.

The FDA has proposed as an alternative that the drug be handled under the new drug provisions with the condition that each producer stipulate that he will submit a sample for testing and will hold up all sales until the sampled batch has been certified. A further condition is being insisted upon, it is understood, that the producers or the association representing the preponderant part of the industry submit a statement in writing to the effect that the industry believes in pretesting of streptomycin and will be willing to state this position at any hearing which the FDA might find it necessary to call or attend.

It is to this last condition that most of the objections of industry are voiced. They point out that it has the effect of putting the industry or its individual members in a position of being forced to testify against themselves in any proceedings that might come up in connection with the drug in the courts.

## Textile Technology Inst. Adds Doubleday to Staff

J. Frank Doubleday, recently discharged as a Commander in the Navy after five and one-half years' service, has been appointed to the administrative staff of the Institute of Technology, Charlottesville, Va. Prior to his entry into the service he was sales engineer for the Combustioneer Corporation, Washington, D. C., and before that, lubricating engineer for the Socony-Vacuum Oil Company, New York.


MERCK "DDT"
(dichloro-diphenyl-trichloroe•hane)
now is available for the manufacture of insecticides for household, agricultural, and veterinary use.

NOW that its job of protecting the health of American Service men overseas is almost completed, Merck "DDT" Technical is being released to manufacturers for the production of modern, effective insecticides.

Expanding application defines more definitely the important rôle, present and future, of "DDT" in the hands of the insecticide manufacturer and pest-control operator. For many years, Merck has been producing the pivotal basic chemical employed in the synthesis of "DDT" and thus it was only natural that we should be at the forefront in the production of this powerful insecticidal agent.

*The product we are offering is—*

## "DDT"

*(dichloro-diphenyl-trichloroethane)*

## TECHNICAL

*Setting Point 89° C. Minimum*

*For Manufacturing Purposes Only*

As production levels rise and current commitments are provided for, we will find increasing opportunities to co-operate with manufacturers of "DDT" insecticides and to serve as a basic and prime source of supply for this product.

**WRITE US FOR PRICES AND LET US KNOW YOUR REQUIREMENTS**

**MERCK & CO., Inc.** *Manufacturing Chemists* **RAHWAY, N. J.**

New York, N. Y. • Philadelphia, Pa. • St. Louis, Mo. • Elkton, Va. • Chicago, Ill. • Los Angeles, Calif.

*In Canada:* MERCK & CO., Ltd., Montreal • Toronto • Valleyfield

# Current Market Quotations Chemicals and Related Materials

## February 15, 1946

**Unless otherwise indicated, quotations are first-hands on large lots, f.o.b. New York. Price changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.**

**All matters under this heading fully protected by copyright.**

### A

Acacia (see Gum, Arabic).
Acetaldehyde, 99%, dms., 55 gals., works..lb. .11 - —
5 and 10 gals., works....lb. .14 - —
Acetaldol (see Aldol).
Acetamide, CP, fib. dms., 5,000 lbs. a year, works..lb. .36 - —
smaller lots, works.....lb. .38 - .70
tech., fib. dms., 5,000 lbs. a year, works..lb. .28 - —
smaller lots, works.....lb. .30 - .50
Acetanilide, tech., cryst., bbls.lb. .29 - .31
powd., bbls.....lb. .27 - .29
USP, cryst., bbls.....lb. .36 - .37
kgs.....lb. .37 - .39
powd., bbls.....lb. .34 - .35
kgs.....lb. .35 - .37
Acetic anhydride, dms., c.l., frt. alld..lb. .11½- —
l.c.l., frt. alld.....lb. .13 - —
Acetoacetanilide, bbls., dms...lb. .49 - .67
Acetone, CP,[1] dms., c.l., divd.lb. .07 - .08
l.c.l., divd.....lb. .07½- .08½
tanks, divd.....lb. .06 - .07
Methyl (see M).
Acetonitrile, dms., c.l., works..lb. .35 - —
l.c.l., works.....lb. .40 - —
5-gal. lots, works.....lb. .45 - —
less than 5-gal. lots, works..lb. .50 - —
Acetophenetidin, USP, bbls., kgs., 1,000-lb. lots..lb. 1.00 - —
dms.....lb. 1.08 - 1.10
Acetophenone, cns., dms.....lb. 1.50 - 1.75
Acetyl chloride, cbys., works..lb. .60 - —
Acid, abietic, dms., c.l., wks..lb. .07½- —
Acetic,[1] com'l or redist., 28%, bbls..100 lbs. 3.38 - 3.63
50%, bbls.....100 lbs. 5.58 - 5.83
70%, bbls.....100 lbs. 6.68 - 6.96
80%, bbls.....100 lbs. 7.47 - 7.72
99.5%, bbls.....100 lbs. 9.15 - 9.40
glacial, nat., c.p., dms., works, 100 lbs.12.50 -13.25
99.5%, bbls.....100 lbs. 9.15 - 9.40
tanks .....100 lbs. 6.93 - 7.25
synth., tech., bbls., works, 100 lbs. 9.15 - 9.40
dms., works.....100 lbs. 9.25 - 9.75
tanks, works.....100 lbs. 6.93 - 7.25
USP, dms., works..100 lbs.10.50 -11.00
pure, 30%, bbls.....100 lbs. 4.41 - 4.69
36%, bbls.....100 lbs. 4.81 - 5.11
60%, bbls.....100 lbs. 7.60 - 7.85
80%, bbls.....100 lbs. 9.25 - 9.51
USP, 36%, cbys.....lb. .08 - .10

Acetic acid price ranges above are for c.l. and l.c.l. quantities. Carboys and cases are 50c. per 100 lbs. higher.

Acetic anhydride (see Acetic anhydride).
Acetylsalicylic,[1] special, USP, bbls., makers, primary distrib., point of shipm't, 100-lb. lots..lb. .45 - —
smaller lots.....lb. .46 - .59
standard USP, fine cryst., gran. (20-40 mesh), powd. (50 mesh), bbls., same basis. lb. .40 - .54

Freight equal'd, shipment identical quantity over standard routes, from N. Y. City, Phila., Midland, Mich., Chicago and St. Louis.

Adipic, fib. dms., works.....lb. .26½- —
Aminoacetic, USP (see Glycine).
Anthranilic, resub., bbls.....lb. 1.20 - 1.25
tech., bbls.....lb. .95 - —
Arsenous, tech. (see Arsenic, white).
USP, powd., dms., kgs....lb. .20 - .22
Ascorbic,[1] USP, dms., 500-kilo lots..kilo.24.50 - —
25-50 kilo lots.....kilo.25.00 - —
10-kilo lots.....kilo.25.35 - —
5-kilo lots.....kilo.25.70 - —
bots., kilo lots.....kilo.26.41 - —
500 grams.....kilo.27.47 - —
Battery, cbys., c.l., E. works.. 100 lbs. 1.60 - —
l.c.l., E. works.....100 lbs. 1.95 - 2.05
Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,900 lbs.....lb. .44 - —
900 lbs. or less.....lb. .47 - —
USP, bbls., 4,000 lbs. up..lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .59
dms., 4,000 lbs. up.....lb. .55 - .56
1,000 to 3,000 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .58 - .59
Betaoxynaphthoic, bbls., works. lb. .95 - —
Boric, tech., 99.5% cryst. (same as prices for powder), gran., bgs., c.l., frt. alld.. ton.99.00 - —
ton lots, ex whse..ton.111.00 - —
less than ton lots, ex whse..ton.116.00 - —
bbls., c.l., frt. alld..ton.109.00 - —
ton lots, ex whse..ton.121.00 - —
less than ton lots, ex whse..ton.126.00 - —
bulk, frt. alld.....ton. 95.50 - —
powd., bgs., c.l., frt. alld.. ton.104.00 - —
ton lots, ex whse..ton.116.00 - —
less than ton lots, ex whse..ton.121.00 - —
bbls., c.l., frt. alld..ton.114.00 - —
ton lots, ex whse..ton.126.00 - —
less than ton lots, ex whse..ton.131.00 - —

USP $25 per ton higher.

Butyric, 90%, dms., c.l., works, lb. .29 - —
l.c.l., same basis.....lb. .30 - —
Broener's bbls.....lb. 1.11 - —
Cacodylic, bots.....lb.13.50 -15.50
Camphoric, cns.....lb. 6.95 - 7.00
Caprylic, 99%, dms.....lb. No stocks
Capric, tech., ret. dms....lb. No stocks
Castor oil,[1] split, ret. dms...lb. No stocks
Chlorosulphonic, dms., c.l., works..lb. .03 - —
l.c.l., works.....lb. .03¼- .04½
tanks, works.....lb. .02½- —
Chromic, 99½-99¾%, dms., c.l., l.c.l. .....lb. .17 - —
.17½- .19
Cinnamic, refd., bots.....lb. 3.00 - 3.25
Citric, anhyd., gran., dms., c.l..lb. .22½- —
l.c.l., 10,000 lbs. 1 ship't, lb. .23 - —
smaller lots.....lb. .23½- .26½
kgs. .....lb. .23½- .26½
USP, cryst., gran., bbls., c.l. lb. .20 - —
l.c.l., 10,000 lbs. 1 ship't, lb. .20½- —
smaller lots, bbls...lb. .21 - —
dms. .....lb. .23 - .24
kgs. .....lb. .21½- —
powdered citric acid, ½c. higher.
Cleve's, bbls.....lb. .65 - —
Coconut oil,[1] dist., dms.....lb. .17½- .19½
Corn oil,[1] s.d., dms., c.l., wks. lb. .12 - —
Cottonseed oil,[1] s.d., dms., c.l. c.l..lb. .12 - .13
tanks, divd.....lb. .11¼- .12¼
Cresylic, dom. coaltar, high-boil 50% (210°-215°), low boil 50% (204°-206°), and special blends, dms., c.l., works, frt. equald..gal. .61 - —
l.c.l., same basis....gal. .83 - —
tanks .....gal. .75 - —
Petroleum, heavy grade (247°-298°), dms., 20, Cal. ref..gal. .490 - —
Sewaren, N. J., ref.. gal. .616 - —
1-19, Cal. ref.....gal. .510 - —
Sewaren, N. J., ref.. gal. .636 - —
tanks, divd.....gal. .586 - —
light grade (200°-246°), tanks, Cal. ref..gal. .600 - —
medium grade (220°-246°), dms., 20, Cal. ref..gal. .50 - —
Sewaren, N. J., ref.. gal. .636 - —
1-19, Cal. ref.....gal. .570 - —
Sewaren, N. J., ref.. gal. .696 - —
tanks, divd.....gal. .646 - —
Crotonic, bbls., Canadian, wks., lb. .25 - —
Dichlorophenyoxyacetic, cns.., dms., works..lb. No stocks
Diethylbarbituric (see Barbital).
F (see Acid, monosulphonic).
Formic, 85%, cbys., c.l., wks.lb. .10 - —
l.c.l., works.....lb. .10½- .11
90%, cbys., c.l., works....lb. .10½- —
l.c.l., works.....lb. .11 - .11¼
Fumaric, tech., bbls., dms..lb. .27 - .31
Gallic, NF V, bbls.....lb. 1.27 - 1.30
fib. dms.....lb. 1.32 - —
technical, bbls.....lb. 1.10 - 1.15
Gamma, bbls.....lb. .85 - —
Gluconic, tech., 50%, bbls....lb. .12 - —
dmjn. .....lb. .21 - .23
kgs. .....lb. .14 - .15
Glutamic hydrochloride, dms. lb. 2.00 - 2.40
Glycolic (see Acid, hydroxyacetic).
H, bbls.....lb. .43½- .45
Hydriodic, 45-47%, cbys.....lb. 2.42 - 2.44
5-lb. bots.....lb. 2.57 - —
57%, bots.....lb. 2.90 - —
Hydrobromic, medicinal, 48%, cbys., divd.E..lb. .45 - —
tech., 48%, cbys., same basis. lb. .45 - —
34%, cbys., same basis.....lb. .35 - .37
Hydrochloric (see Acid, Muriatic).
Hydrocyanic, cyls., works...lb. .80 - 1.00
NF, dilute, 2%, 5-lb. bots..lb. .30 - .34
Hydrofluoric, anhyd., cyls., wks. lb. .19 - .19½
tanks, works.....lb. .16 - —
30%, rubber dms., works..lb. .09 - .09
48%, rubber dms., works..lb. .12 - —
52%, rubber dms., works..lb. .12½- —
60%, rubber dms., works..lb. .13½- —
Hydrofluosilicic, 30-35%, bbls.lb. .08 - .09
Hydroxyacetic, 70% tech., bbls. non-return. Phila..lb. .084 - —
tanks, Belle, W. Va., acid basis..lb. .08½- —
Hypophosphorous, USP, djns. lb. .75 - .77
Lactic, edible, 50%, cbys., 20 or more..lb. .12½- —
smaller lots.....lb. .13 - .13½
80%, bbls., 5 or less.....lb. .24¼- .24¾
plastic grade, 50%, bbls., cbys., 20 or more..lb. .14¼- —
10 or less.....lb. .14¾- .15¼
80%, bbls., cbys., 5 or less. lb. .26 - .26¼
tech., dark, 22%, bbls., c.l., works..100 lbs. 2.90 - —
l.c.l., works....100 lbs. 3.15 - —
cbys., works.....100 lbs. 4.15 - —
44%, bbls., c.l., works... 100 lbs. 6.30 - —
l.c.l., bbls., works.... 100 lbs. 6.55 - —
cbys., works.....100 lbs. 7.55 - —
light, 22%, bbls., c.l., works. 100 lbs. 3.90 - —
l.c.l., works....100 lbs. 4.15 - —
cbys., works.....100 lbs. 5.15 - —
44%, bbls., c.l., works.... 100 lbs. 7.30 - —
l.c.l., works....100 lbs. 7.55 - —
cbys., works.....100 lbs. 8.55 - —
USP XII, 85%, cbys.....lb. .54 - .57
USP VIII, 75%, cbys.....lb. .52 - .55
Lauric, dist., 95%, dms.lb. .28 - —
Laurent's, bbls.....lb. .45 - —
Linseed oil,[1,7] light, dms...lb. .21½- .22
Maleic, powd., dms.....lb. .30 - —
Anhydride (see M).
Malic, powd., kgs.....lb. .47 - —
Mandelic, USP, dms., 1,000 lb. lots..lb. 2.05 - —
smaller lots.....lb. 2.10 - 2.30
Mixed, tanks, nitric unit....lb. .05 - .06
sulphuric unit.....lb. .0085- .009
Molybdic,[1] kgs., works.....lb. .95 - 1.10
Monochloracetic, tech., flakes, 96-97%, dms..lb. .16½- —
purified, flake, 99%, dms...lb. .20 - —
Monosulphonic, bbls.....lb. 1.50 - —
Muriatic, 18°, cbys., c.l., E. works..100 lbs. 1.50 - —
l.c.l., E. works....100 lbs. 1.75 - 2.45
tanks, works.....100 lbs. 1.05 - —
20°, cbys., c.l., E. works.... 100 lbs. 1.75 - —
tanks, E works.....ton.22.00 - —
22°, cbys., c.l., E. works.... 100 lbs. 2.25 - —
tanks, E. works.....ton.32.00 - —
CP, USP, consumers, cbys. extra..lb. .06 - —
6-lb. bots., extra.....lb. .10 - —
dealers, cbys. extra....lb. .06½- —
6-lb. bots., extra.....lb. .08½- —
Myristic, dist., dms.....lb. No stocks
Naphthenic, 210-220 acidity, dms., extra, works..lb. .10¾- —
tanks, works.....lb. .09 - —
230-245 acidity, dms., extra, works..lb. .12¾- —
tanks, c.l., works.....lb. .12 - —
Nicotinic, USP, dms.....kilo. 6.50 - 6.80
Nicotinic amide (see Nicotinamide).
Nitric, 36°, cbys., c.l., E. works..100 lbs. 5.00 - —
l.c.l., 25, E., works.100 lbs. 5.25 - —
10 to 24, works..100 lbs. 5.35 - —
1 to 9, works....100 lbs. 5.95 - —
38°, cbys., c.l., E. works.... 100 lbs. 5.50 - —
Western works...100 lbs. 5.75 - —
40°, cbys., c.l., E. works.... 100 lbs. 6.00 - —
42°, cbys., c.l., E. works.... 100 lbs. 6.50 - —
CP, USP, consumers, cbys. extra..lb. .13 - —
7-lb. bots., cs., extra, lb. .15 - —
dealers, cbys. extra....lb. .11½- —
7-lb. bots., cs., extra..lb. .13½- —
Oleic (see Oil, red).
Oleum (see Acid, sulphuric, fuming).
Oxalic,[1] bbls., c.l., works....lb. .11¼- —
10,000 lbs.....lb. .11½- —
smaller lots.....lb. .12½- —
Palm oil,[2] white, dist., dms..lb. No stocks
Para-aminobenzoic, cns.....lb. 1.40 - —
Paranitrobenzoic, cns.....lb. .72 - —
Paratoluidinmetasulphonic, bbls., works..lb. .80 - —
Peanut oil,[1] s.d., tanks, works, lb. .11¼- —
Phenylacetic, bots.....lb. 1.65 - 1.85
Phosphoric, food grade, 50%, bbls., c.l., works, frt. equald..100 lbs. 4.00 - 4.25
cbys., c.l., works, frt. equald..100 lbs. 4.35 - 4.60
l.c.l., works, frt. alld., 100 lbs. 5.25 - 7.25
tankwagon, divd. N. Y., Phila. Met. area..100 lbs. 4.00 - —
75%, bbls., c.l., works, frt. equald..100 lbs. 4.75 - 5.00
cbys., c.l., works, frt. equald..100 lbs. 5.10 - 5.35
l.c.l., frt. alld....100 lbs. 7.00 - 9.50
tanks, works, frt. equald., 100 lbs. 4.00 - 4.25
tankwagon, divd. N. Y., Phila. Met. area..100 lbs. 4.75 - —
USP, 100-lb. cbys., c.l.....lb. .10½- —
10 cbys. to c.l.....lb. .11½- —
2 to 9 cbys.....lb. .12 - —
single cbys.....lb. .13 - —
70-lb. cbys.....lb. .10½- —
25 cbys. to c.l.....lb. .11½- —
5 to 24 cbys.....lb. .12 - —
1 to 4 cbys.....lb. .13 - —
dilut., 10%, cbys., djns...lb. .07 - .07½
Picramic, kgs.....lb. .65 - .70
Picric, bbls.....lb. .35 - —
Propionic,[1] synth., pure, dms., works..lb. .19½- —
tanks, works.....lb. .18½- —
Pyrogallic, tech., bbls.....lb. 1.45 - 2.03
USP, cryst., dms.....lb. 2.10 - 2.15
resub., dms.....lb. 2.60 - 2.65
Pyroligneous, dms., divd. E.. gal. .30 - —
Ricinoleic, com'l split (see Acid, castor oil, split).
Salicylic,[1] tech., bbls., c.l...lb. .26 - —
100 lbs. to c.l.....lb. .33 - —
smaller lots.....lb. .34 - .42
USP, bbls., c.l.....lb. .28 - —
100 lbs. to c.l.....lb. .35 - —
smaller lots.....lb. .36 - .44
Sebacic, tech., dms., works..lb. .55 - .57
Soybean oil,[1] s.d., dms., works. lb. .11¾- .16¼
tanks, works.....lb. .11 - .15¾
Stearic,[1] double pressed, bgs., c.l., divd. E. Rockies..lb. .15¾- —
W. of Rockies.....lb. .16¾- —
Texas and Okla., divd., lb. .16¾- —
single pressed, bgs., c.l., divd. E. of Rockies..lb. .15¾- —
W. of Rockies.....lb. .16¾- —
Texas and Okla., divd., lb. .15¾- —
triple pressed, bgs., c.l., divd. E. of Rockies..lb. .16¾- —
W. of Rockies.....lb. .19¾- —
Texas and Okla., divd., lb. .19¼- —

Stearic acid l.c.l. prices are:—Ton lots, ½c. per lb. higher; less than ton lots, 1c. higher.

Succinic, bbls.....lb. .75 - —
Sulphanilic, CP, bots., works.lb. 1.60 - 1.63
tech., dms., works.....lb. .17 - —
Sulphuric, 60°, cbys., c.l., E. works..100 lbs. 1.25 - —
l.c.l. .....100 lbs. 1.50 - 2.20
tanks, E. works.....ton.13.00 - —
66°, cbys., c.l., E. works.... 100 lbs. 1.50 - —
tanks, E. works.....ton.16.50 - —
98°, tanks, works.....ton.17.50 - —
Acid, sulphuric, CP, USP, consumers cbys. extra..lb. .08 - —
9-lb. bots., cs. extra..lb. .10 - —
dealers, cbys. extra....lb. .06½- —
9-lb. bots., cs. extra..lb. .08½- —
fuming, 20%, tanks, E. works, ton.19.50 - —
Tannic, tech., bbls., dms....lb. .71 - .73
USP, fluffy, bbls., 1,000 lbs... lb. 1.33 - —
smaller lots.....lb. 1.35 - 1.38
powder, bbls., 1,000 lbs..lb. 1.13 - —
smaller lots.....lb. 1.15 - —
Tartaric,[1] USP, cryst., gran., powd., bbls., 10,000 lbs., 1 ship't..lb. .70½- —
smaller lots.....lb. .71 - —
kgs. .....lb. .71½- —
Thioglycolic, highly purified, bbls., cbys., basis 100%..lb. 3.50 - 7.00
Tobias, bbls.....lb. .55 - .60
Trichloroacetic, bots.....lb. 2.00 - 2.50
Tungstic,[1] CP, 100-lb. pkgs....lb. 2.94 - 3.10
pure, 100-lb. kgs.....lb. 2.86 - —
Aconite leaves, bls.....lb. 1.10 - 1.40
Root, bls.....lb. 1.35 - 1.40
Aconitine, amorph., bots.....oz.23.00 -26.00
15-gr. vials.....vial. 1.00 - —
cryst., bots.....oz.42.00 -48.00
15-gr. vials.....vial. 1.00 - —
Acrylonitrile, dms., c.l., frt. alld. lb. .39½- —
l.c.l., works.....lb. .40 - .41
tanks, frt. alld.....lb. .39 - —
Adeps lanae,[1] USP, anhyd., cosmetic, dms., works..lb. .33 - .34
pharmaceutical, dms., works. lb. .32 - .33
Agar .....lb. 3.50 - —
San Diego, Cal.....lb. 3.00 - —
Agaric, white, bls.....lb. 3.75 - 4.00
Albumen, blood, dark (see Blood, soluble).
light, dms., Chicago.....lb. .65 - .70
egg, edible,[1,7] powd., bbls....lb. 1.99 - 2.07
granular, cryst., bbls.....lb. 1.94 - 2.02
tech., cryst., bbls.....lb. 1.20 - 1.25
Alcohol, allyl, dms., c.l., divd.lb. .21 - —
l.c.l., divd.....lb. .21½- —
tankcars, divd.....lb. .20 - —
Amyl ex pentane, dms., c.l., frt. alld. E. of Miss. R. lb. .141 - —
l.c.l., frt. alld.....lb. .151 - —
tanks, frt. alld.....lb. .131 - —
(see also Fusel oil, ref.).
Benzyl, cns.....lb. .70 - .75
dms. .....lb. .65 - —
Butyl, normal,[1] ferment, Ill., Ind. prod., dms., c.l., frt. alld..lb. .1980- —
l.c.l., frt. alld. E....lb. .2030- —
tanks, frt. alld. E....lb. .1880- —
tankwagons, frt. alld.lb. .1930- —
other production, dms., c.l., frt. alld. E..lb. .1950- —
l.c.l., frt. alld. E....lb. .2000- —
tanks, frt. alld. E....lb. .1850- —
synthetic, dms., c.l., frt. alld. E..lb. .11¾- —
l.c.l., frt. alld. E....lb. .12¼- —
tanks, frt. alld. E.....lb. .10¾- —

Normal butyl alcohol prices in West, ½c. per lb. higher.

secondary, dms., c.l., divd.lb. .095 - —
l.c.l., divd.....lb. .10 - —
tanks, divd.....lb. .08½- —
tertiary, denat., dms., c.l..lb. .12½- —
l.c.l., dms.....lb. .13 - —
tanks .....lb. .11 - —
Capryl, dms., c.l., works...lb. .17½- —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16 - —
Cetyl, dom., CP, fiber ctns., 1,000 lbs. 1.75 - 1.80
smaller lots.....lb. 1.95 - 2.30
Cinnamic, bots.....lb. 3.00 - 3.55
Denatured,[1,7] CD14, dms., c.l., works, E..gal. .613 - —
l.c.l., works, E.....gal. .633 - .653
tanks, E. divd.....gal. .543 - —

Tankcar sales require written authorization by Alcohol Tax Unit.

SD1, 190 pf., dms., c.l., E. works..gal. .612 - —
l.c.l., works, E.....gal. .632 - .652
tanks, E. works.....gal. .542 - —
Anhydrous 5c. per gal. higher.
SD2B, dms., c.l., wks., E.gal. .60½- —
l.c.l., works, E.....gal. .63½- .65½
tanks, E. works.....gal. .53½- —
SD23G, dms., c.l., works..gal. .652 - —
l.c.l., works.....gal. .672 - —
tanks, works.....gal. .582 - —
SD23H, dms., c.l.....gal. .61 - —
l.c.l., works, E.....gal. .63 - .66½
tanks, E. works.....gal. .54 - —
SD29, denatured, with acetaldehyde, dms., c.l., E. works. gal. .62 - —
l.c.l., works, E.....gal. .64½- .68¼
tanks, E. works.....gal. .55 - —

When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those for SD21 plus 1½c. per gal. denaturing charge.

Special solvent, dms., c.l., works, E..gal. .63 - —
l.c.l., works, E.....gal. .65 - .68
tanks, E. works.....gal. .56 - —

Tankcar sales require written authorization by Alcohol Tax Unit.

## Controls on Materials

**Applications of WPB, OPA and WFA regulations to materials listed in this section are indicated by superior figures as follows:—**

[1]—Specific price ceiling
[2]—Price agreement (sellers with OPA)
[3]—General Limitation Order
[4]—General Preference Order
[5]—Conservation Order
[6]—Allocation
[7]—War Food Order

Alcohol, diacetone, acetone-free, dms., c.l., dlvd..lb. .11½- .14½
l.c.l., dlvd.....lb. .12 - .15
tanks, dlvd.....lb. .10½- .13½
tech., dms., c.l., dlvd.....lb. .11 - .13½
l.c.l., dlvd.....lb. .11½- .14
tanks, dlvd.....lb. .10 - .12½
Ethyl, 190 pf., dms., c.l., wks. gal.17.72½- —
l.c.l., works.....gal.17.76 -17.79
tanks .....gal.17.68½- —
absolute, dms., c.l., works.gal.18.07½- —
l.c.l., works.....gal.18.71 -18.74
tanks .....gal.18.68½- —
Ethylhexyl, dms., c.l., works.lb. .24 - —
l.c.l., works.....lb. .25 - —
tanks, works.....lb. .23 - —
Furfuryl, tech., cns., works..lb. .25 - —
dms., c.l., works.....lb. .22½- —
l.c.l., works.....lb. .25 - —
tanks, works.....lb. .23 - —
Isoamyl (see Carbinol, isobutyl).
Isobutyl, refd., dms., works..lb. .0660- —
tanks, works.....lb. .0760- —
Isopropyl, refd., 91%, dms., incl., c.l., dlvd..gal. .36 - —
l.c.l., dlvd.....gal. .41 - —
tanks, dlvd.....gal. .31½- —
90%, dms., incl., c.l., dlvd.. gal. .41½- —
l.c.l., dlvd.....gal. .44½- —
tanks, dlvd.....gal. .35 - —
Methyl (see Methanol).
Methylamyl (see Carbinol, methylisobutyl)
Octyl (see Alcohol, ethylhexyl).
Phenylethyl, dms.....lb. 2.10 - 2.25
Polyvinyl, type A, fiber-pack, Niagara Falls..lb. .65 - .70
type B, fiber-pack, same basis. lb. .60 - .65
Propyl, normal, dms., works, gal. .67 - —
smaller containers, works, gal. .72 - —
tanks, works.....gal. .60 - —
Alcohol tetrahydrofurfuryl, cns., Cedar Rapids, Ia..lb. .35 - —
dms., c.l., Waverly, N. Y...lb. .40 - —
l.c.l., same basis.....lb. .50 - —
Aldol, dms., works.....lb. .12 - .15
denaturing grade, dms.....gal. 1.20 - —
Aletris root, bgs.....lb. 2.75 - 3.00
Algarobilla,[1] c.l., ex dock.... long ton.67.50 - —
Algarobilla price based on ocean frt. at $12 insurance per long ton.
Algin, bbls., fib. dms.....lb. .76 - 1.00
Alizarin (see Red, alizarin).
Alkanet root, bgs.....lb. No stocks
Allspice,[1] Mexican, bgs.....lb. .17 - .17½
Allyl bromide, cbys., 5,000 lbs., works..lb. .90 - —
smaller lots, works.....lb. 1.05 - 1.10
Chloride, dms., c.l., dlvd....lb. .12½- —
l.c.l., dlvd.....lb. .14 - —
tanks, dlvd.....lb. .12½- —
Aloe, Cape, cs.....lb. No stocks
Curacao, kgs.....lb. .48 - .49
Socotrine, kgs.....lb. .42 - .41
Aloin, bbls., dms., kgs.....lb. 4.80 - 4.89
Alphanaphthol, bbls.....lb. .32 - —
Alphanaphthylamine, bbls.....lb. .32 - —
Alphapicoline, ret. dms., works, frt. equald..lb. .28½- .28½
Alphapinene, dms., c.l., wks..gal. .80½- —
l.c.l., works.....gal. .91½- —
tanks, works.....gal. .86½- —
Alphaterpineol, dms., c.l., works. lb. .1340- —
l.c.l., works.....lb. .1390- —
tanks, works.....lb. .1200- —
Alphatocopherol, amp.....gram. 1.00 - 1.10
Althea root, NF, peeled, bls....lb. .55 - .60
Alum, ammonia, burst. USP, bbls., kgs..lb. .16 - .18
gran., bbls., works....100 lbs. 4.00 - —
dlvd., N. Y., Phil..100 lbs. 4.00 - —
lump, bbls., works....100 lbs. 4.25 - —
dlvd., N. Y., Phil..100 lbs. 4.25 - —
powd., bbls., works....100 lbs. 4.40 - —
dlvd., N. Y., Phil..100 lbs. 4.40 - —
Potash, gran., bbls., works. 100 lbs. 4.25 - —
dlvd., N. Y., Phil..100 lbs. 4.25 - —
lump, bbls., works....100 lbs. 4.50 - —
dlvd., N. Y., Phil..100 lbs. 4.50 - —
powd., bbls., works....100 lbs. 4.65 - —
dlvd., N. Y., Phil..100 lbs. 4.65 - —
Potash-chrome, bbls.....lb. 12½- .15
Soda, bbls., c.l., works..100 lbs. 3.25 - —
l.c.l., dlvd.....100 lbs. 4.25 - 5.00
Alumina, classified, grade, ground, kgs., works..lb. .35 - .67
top grade, ground, kgs., works. lb. .60 - .67
unclassified, ground, kgs., works..lb. 10½- .40
Acetate, basic solution, 24%, bbls., dlvd..lb. 10½- .11
20%, bbls., dlvd.....lb. .09½- .10
Chloride, anhyd., com'l, dms., c.l., works..lb. .08 - .11
l.c.l., works.....lb. .09 - .12
cryst., com'l, dms., c.l., works. lb. .06 - —
l.c.l., works.....lb. .06½- .09½
solution, 32 deg., cryst., c.l., works..lb. .02½- —
l.c.l., works.....lb. .03½- —
Fluoride, tech., bbls.....lb. .25 - —
Formate, solution, 12-20° Be, bbls., c.l., works..lb. .09½- —
l.c.l., works.....lb. .10 - —
Hydrate, heavy, bgs., c.l., works..lb. .024 - .031
l.c.l., works.....lb. .035 - .040
light, bgs., dlvd.....lb. .14½- —
bbls., dlvd.....lb. .15 - —
Hydroxide, gel, tech., min. 15% Al (OH)$_3$ dms., 10,000 lbs. or or more, f.o.b. ship't point. lb. .09 - .09¼
ton lots, same basis..lb. .08¼- .09½
smaller lots, same basis, lb. .08¾- .04
conc., 9-9½% $Al_2O_3$, fib. dms., works..lb. .17¾- —
contract, works.....lb. .16¾- —
14-15% $Al_2O_3$, fib. dms., wks..lb. .23¾- —
contract, works.....lb. .19¾- —
dried, USP XII, fib. dms., works..lb. .72 - —
contract, works.....lb. .73 - —
powder, tech. (see Alumina hydrated).
USP IX, bbls., dms.....lb. .16 - .17
Laurate, precip., bbls.....lb. .25 - .26
Naphthenate, 1.7% Al, 55-gal. dms., works..lb. .19¾- —
Oleate, dms., contract.....lb. .24½- —
Resinate, precip., dms.....lb. .18¾- —
Stearate, precip., ctn., c.l...lb. .23 - —
l.c.l. .....lb. .24 - —
Sulphate, com'l, bgs., c.l., works, frt equald..100 lbs. 1.15 - 1.20
l.c.l., works, frt. equald... 100 lbs. 1.40 - 1.50
bbls., c.l., works, frt. equald. 100 lbs. 1.25 - 1.40
l.c.l., works, frt. equald. 100 lbs. 1.60 - 1.70
Alumina sulphate, com'l, iron-free, bgs., c.l., works..100 lbs. 1.75 - —
l.c.l., works.....100 lbs. 2.00 - —
Trihydrate, heavy (see Alumina hydrate).
Aluminum, 98-99%, c.l.....lb. .15 - —
l.c.l. .....lb. .15 - .16
Paste, lining, extra fine, 200-lb. dms..lb. .56 - .60
ink, 150-lb. dms.....lb. .71 - —
standard, 200-lb. dms.....lb. .53 - —
Powder, lining, extra fine, 100-lb. dms..lb. .93 - —
litho, 150-lb. dms.....lb. .57 - —
standard, 200-lb. dms..lb. .50 - —
paint comp., 200-lb. dms..lb. .40 - —
unpolished, stand., dms...lb. .96 - —
varnish, stand., 300-lb. dms.. lb. .40 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 2c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Ambergris, gray, tins.....oz. 8.75 -12.00
Aminoethylpropanol, cns., dms., works..lb. .50 - .60
Aminopyrine, bots., dms.....lb. 4.00 - 4.40
Ammonia, anhydrous, fertilizer, tankcars, works, frt. equald. ton.60.00 - —
pure, cyls.....lb. .14½- —
refrigeration, tanks, works... ton.61.50 - —
Aqua, 26°, cbys.....lb. .05¾- —
dms., c.l.....lb. .02¼- —
l.c.l. .....lb. .02½- —
tanks, works ($NH_3$ content). ton.65.00 - —
Benzoate, USP, dms., kgs., 4,000 lbs., up, frt. alld..lb. .42 - —
smaller lots, frt. alld..lb. .44 - .47
Biborate, gran., bbls., N. Y. or Chi..lb. .1515- —
Bicarbonate, dms., c.l.....lb. .0564- —
Bichromate, bbls.....lb. .23 - .28
Bifluoride, bbls.....lb. .15 - .15½
Borate, gran., bbls., kgs.....lb. .1060- —
powd., bbls., kgs.....lb. .1130- —
Bromide, NF, bbls.....lb. .28 - —
dms. .....lb. .29 - —
Carbonate, USP, lump, dms..lb. .03¾- .03¾
cns. .....lb. .14¼- .17¼
powdered, 1c. per lb. higher.
Chloride, tech. (see Ammoniac, sal).
USP, gran., bbls., dms., kgs.. lb. .13 - .18
Citrate, dibasic, bbls.....lb. .75 - —
dms. .....lb. .80 - .85
Fluoride,[6] bbls.....lb. No stocks
Hydroxide (see Ammonia, aqua).
Hypophosphite, NF, dms....lb. 1.25 - 1.27
jars .....lb. 1.30 - 1.35
Iodide, NF, bots.....lb. 3.71 - —
jars .....lb. 3.66 - —
Linoleate, 80%, anhyd., bbls.lb. .12 - —
Molybdate,[6] c.p., cryst., kgs.lb. 1.26 - 1.28
fine cryst., bbls., kgs....lb. .84 - .87
purified, dms.....lb. 1.10 - 1.13
Nitrate,[1] fertilizer grade, Canadian, 32.5% nitrogen, bgs., same N unit price, delivered, as Ammonia sulphate, bgs., c.l., shipping point.....ton.50.00 - —
bulk, same basis.....ton.46.00 - —
tech., bgs., works.....100 lbs. 4.55 - 4.60
bbls., works.....100 lbs. 4.55 - —
Nitrate - limestone, 20.5% N. bgs., Hopewell, Va...ton.22.50 - —
Oleate, dms.....lb. .14 - —
Oxalate, fine gran. bbls.....lb. .28 - —
dms. .....lb. .25 - .29
Perchlorate, kgs.....lb. No stocks
Persulphate, kgs.....lb. .35½- .35½
Phosphate, dibasic, NF V, bbls. kgs...lb. .37 - .39
tech., bgs., c.l., works..lb. .07 - —
l.c.l., works.....lb. .07½- —
monobasic, pure, bbls.....lb. .39 - .41
tech., bgs., c.l., works....lb. .07 - —
l.c.l., works.....lb. .07¾- .08¼
Salicylate, NF, dms., kgs....lb. 1.15 - 1.16
Silicofluoride, bbls.....lb. .15 - .18
Stearate, anhydrous, dms....lb. .24 - —
paste, dms.....lb. .06¼- —
Sulphamate, bbls., works....lb. .18 - .21
Sulphate,[1] bulk, inland producing ovens..ton.28.20 - —
Atlantic coast ports.....ton.29.20 - —
Sulphide, liquid, 40-45% basis 100%, dms., c.l., works..lb. .09 - —
l.c.l., dlvd.....lb. .10 - —
tanks, dlvd.....lb. .07½- —
red, 45% cbys, works.....lb. .08 - —
dms., works.....lb. .09 - —
yellow, 33%, cbys., works..lb. .09 - —
dms., works.....lb. .06 - —
Sulphocyanide, CP, bbls.....lb. .55 - —
jars .....lb. .57 - —
tech., bbls.....lb. .17 - .19
Thioglycollate, highly purified, 100% basis, bbls..lb. 7.10 - 8.25
Ammoniac gum (see Gum, ammoniac)
Sal, gray, bbls., c.l., works.... 100 lbs. 5.50 - 5.75
l.c.l., works.....100 lbs. 6.00 - 6.70
white, gran., bbls., c.l., works. 100 lbs. 4.40 - —
l.c.l., same basis.100 lbs. 5.15 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd..lb. .17 - —
l.c.l., dlvd.....lb. .17½- —
tanks, dlvd.....lb. .16 - —
ex-pentane, dms., c.l., frt. alld. E. of Miss. R..lb. .15½- —
l.c.l., same basis.....lb. .16½- —
tanks, same basis.....lb. .14½- —
Alcohol (see Alcohol, amyl).
Butyrate, dms.....lb. .80 - 1.00
Chloride, mixed, tech., dms., c.l., works..lb. .07 - —
l.c.l., works.....lb. .08 - —
tanks, works.....lb. .06 - —
Ether, dms., c.l., works.....lb. .095 - —
l.c.l., works.....lb. .102 - —
tanks, works.....lb. .085 - —
Nitrite, USP, bots.....lb. 1.72 - 1.80
Mercaptan, dms., works.....lb. 1.10 - —
Salicylate, bots.....lb. .83 - .85
Stearate, dms.....lb. .42 - —
Anethol, com'l, dms., works..lb. .657 - .662
NF, dms.....lb. 2.50 - 3.00
Angelica dom. atropurpurea root. bls..lb. 1.00 - 1.35
imported, natural, bls.....lb. 2.50 - 2.60
Angostura bark, bls.....lb. .21 - .22
Anilin oil, dms., c.l., works, frt. alld..lb. .11¼- —
l.c.l., works, frt. alld.....lb. .12½- —
tanks, works, frt. alld.....lb. .10½- —
Salt, dms., works.....lb. .22 - .24
Anise, Bulgarian, bgs.....lb. No stocks
Anise, Chinese, star, enroute to N. Y., bgs..lb. .40 - .41
Cyprus, bgs.....lb. No stocks
Mexican, bgs.....lb. .33 - .34
Syrian, bgs.....lb. No stocks
Turkish, bgs.....lb. No stocks
Anisic aldehyde, bots.....lb. 3.00 - 3.25
Annatto, paste, bxs.....lb. .34 - .39
Seed, bgs.....lb. .12½- —
Anthracene, 80-85%, bbls., works, lb. .55 - —
90%, bbls., works.....lb. .65 - —
Anthraquinone, 99.5%, bbls....lb. .70 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys.....lb. .17 - —
Metal,[1,6] bulk, c.l., works...lb. .14½- .17¼
Needle,[1,6] Bolivian, brown, 67%, cs..lb. .16¼- —
Chinese, black, 70%, cs....lb. .20 - .22
Oxide,[1,6] ceramic grade, bgs., c.l...lb. .16 - —
l.c.l. .....lb. .15½- —
paint grade, bgs., c.l.....lb. .10¾- —
l.c.l. .....lb. .16¾- —
Salt,[1,6] 65%, bgs., c.l., dlvd. E. of Miss. River..lb. .40 - —
Sulphide,[1,6] 65-70%, bbls., c.l., works..lb. .17 - —
l.c.l., works.....lb. .17½- —
Antipyrine, bbls., kgs., ton....lb. 2.00 - —
smaller lots.....lb. 2.10 - 2.20
Apomorphine, bots.....oz. 23.20 -23.70
Apple syrup,[1] bbls.....lb. .14 - .16
Archil extract, bbls.....lb. No stocks
Areca nuts, powd., bbls.....lb. .17 - .18
Arecoline hydrobromide, bots..oz. 6.10 - 7.10
Argols,[7] min. 70%, bgs., shipment port, 100 kilos (100% purity).65.00 - 67.00
Arnica flowers, bls.....lb. 2.25 - 2.50
Arrowroot, powd., bgs., bbls..lb. .10½- .11
Arsenic, chloride (arsenous), bots. lb. 1.55 - —
Metal, lump, c.l.....lb. No prices
Sulphide, yellow, bbls.....lb. No stocks
Trioxide (see Acid, arsenous, and Arsenic, white).
White, powd., kgs., c.l.....lb. .04 - —
l.c.l. .....lb. .04¾- —
Asafetida, cs.....lb. .58 - .60
powd., bbls., dms.....lb. .78 - .80
Asbestine (see Talc, N. Y., fibrous).
Asbestos, fiber[1] 5D and 5K bgs., c.l. (20 tons), Cana. mines. ton.49.50 - —
5R, bgs., c.l. (20 tons), same basis..ton.44.00 - —
6D, bgs., c.l. (20 tons), same basis..ton.33.00 - —
7D, bgs., c.l., same basis.ton.28.50 - —
7F, bgs., c.l., same basis.ton.26.50 - —
7H, bgs., c.l., same basis.ton.22.50 - —
7K, bgs., c.l., same basis.ton.19.00 - —
7M, bgs., c.l., same basis.ton.16.50 - —
7R, bgs., c.l., same basis.ton.15.50 - —
Asphaltum, Barbados, Dunellen, N. J..lb. .10½- —
California, dms., c.l.....ton.36.40 - —
l.c.l. .....ton.41.40 - —
Cuba, A, bulk, c.l.....ton.60.00 - —
l.c.l. .....ton.90.00 - —
B, bulk, c.l.....ton.38.50 - —
l.c.l. .....ton.55.00 - —
Egyptian .....ton. No stocks
Gilsonite,[1] brilliant black, selects, 340° F. fusing point, bgs., mines..ton.30.00 -32.00
270-295° fusing point, bgs., mines..ton.30.50 - —
seconds, 300-390° F. fusing point, not uniform, bgs., mines..ton.25.50 - —
jet, bgs., ton lots, gross weight, Colo. mines..ton.30.50 - —
Manjak, No. 10, crude, dms., works..lb. .05½- .12
process form, bgs., works..lb. .05¾- .13
jet, bgs., 2,000 lbs., gross weight, Colo. mines..ton.30.50 - —
Mexican, refd., dms., f.o.b. Tampico, Mex. metric ton.27.50 - —
South American, refd., dms., c.l., N. J. refy...ton.22.00 -23.00
l.c.l., same basis.....ton.24.00 -25.00
tanks, same basis.....ton.15.00 - —
Atropine, bots.....oz. 7.85 - —
Sulphate, bots.....oz. 5.75 - 6.15

# B

Balm of Gilead buds, bgs.....lb. 1.90 - 2.00
Barbasco root,[1] (see Cube root).
Barberry root bark, bgs.....lb. .78 - .80
Barbital, dms.....lb. 3.50 - 3.60
Sodium, dms.....lb. 3.75 - 3.85
Barium carbonate, natural, 90% through 200 mesh, bgs., c.l., works..ton.43.00 - —
precip., bgs., c.l., works..ton.60.00 -70.00
l.c.l., works.....ton.65.00 -75.00
bbls., c.l., works.....ton.65.00 -75.00
l.c.l., works.....ton.70.00 -80.00
Chlorate, kgs., works.....lb. .27½- .31
Chloride, CP, cryst., bbls....lb. .25 - .27
pure, bbls., kgs.....lb. .10 - .12
tech., cryst., bgs., c.l., works. ton.73.00 - —
l.c.l., works.....ton.78.00 - —
bbls., c.l., works.....ton.75.00 - —
l.c.l., works.....ton.80.00 - —
Dioxide, dms., c.l., works....lb. .10 - —
l.c.l., works.....lb. .12 - .13
Fluoride, bbls.....lb. .18 Nom.
Hydrate, crystals, bbls.....lb. .06½- .07½
Hydroxide, bbls., works.....lb. .15 - .18
Iodide, bots.....lb. 4.62 - 4.82
Monoxide (see Oxide).
Nitrate, bbls., c.l., works...lb. .09½- .11¼
l.c.l., works.....lb. .10 - .11¼
Oxide, dms., c.l., works.....lb. .11½- .12
l.c.l., works.....lb. .14 - .15
grd., dms., l.c.l., works....lb. .15 - .17
Peroxide (see Dioxide).
Silicofluoride, bbls.....lb. .17 - .19
Stearate, ctns., 1 ton up.....lb. .31 - —
smaller lots.....lb. .32 - —
Sulphate, tech. (see Barytes, and Blanc fixe).
X-ray, bbls.....lb. .09½- .10
kgs. .....lb. .12 - —
Barytes,[1] floated, bbls., c.l., St. Louis..ton.27.65 - —
l.c.l., same basis.....ton.28.65 - —
ex whse., N. Y.....ton.30.00 - —
paper baryta, c.l., St. Louis.ton.25.35 - —
l.c.l., same basis.....ton.26.35 - —
ex whse., N. Y.....ton.34.00 - —
Southern, off-color, bgs., mines, ton.17.50 - —
95.75%, bgs., mines.....ton.18.00 - —
Ore, approx. 94% $BaSo_4$, bulk, mines..ton. 6.50 - —
Bauxite bulk, mines.....ton. 7.00 -10.00
Bay leaves (see Laurel leaves).
Barberry bark, bgs.....lb. .12 - .18
Belladonna leaves, bls.....lb. 1.15 - 1.25
Root, bls.....lb. 1.50 - 1.55
Bentonite, 200 mesh, bgs., works. ton.11.00 - —
325 mesh, bgs., works....ton.16.00 - —
Benzaldehyde, NF, dms.....lb. .70 - 1.10
tech., cbys., dms.....lb. .45 - .55
Benzene (see Benzol).
Benzidin base, bbls.....lb. .70 - —
Benzocaine, cns.....lb. 3.20 - 3.55
Benzol (benzene), pure, nitration and 90%, dms., works. gal. .20 - —
tanks, E. of Omaha, frt. alld..gal. .15 - —
W. Coast, Minnequa, Colo..gal. .15 - —
Benzophenone, dms.....lb. 1.15 - 1.20
Benzoyl chloride, cbys.....lb. .20½- .24
Peroxide, pure, gran., fib. ctns., works..lb. 1.95 - —
Benzyl acetate, f.f.c., ens....lb. .80 - .75
dms. .....lb. .68 - —
Alcohol (see Alcohol, benzyl).
Benzoate, f.f.c., dms.....lb. 1.05 - 1.15
Chloride, tech., cbys., works, frt. equald..lb. .20 - —
refined, cbys.....lb. .21 - —
Cinnamate, cns.....lb. 4.00 - 6.35
Formate, cns.....lb. 2.70 - 2.75
Propionate, bots.....lb. 1.85 - 2.45
Salicylate, bots.....lb. 1.80 - 1.85
Benzylidinacetone, bots.....lb. 2.00 - 2.20
Benzylisoeugenol, bots.....lb. 9.50 - —
Berberine bisulphate, cns.....lb. No stocks
Hydrochloride, bots.....lb. No stocks
Sulphate, cns.....lb. No stocks
Berberis root, bls.....lb. .80 - .86
Betanaphthol, resublimed, dms., works..lb. .55 - .60
tech., bbls., c.l., works....lb. .25 - —
l.c.l., works.....lb. .24 - —
Benzoate, fib. dms., works..lb. 1.75 - —
Salicylate, dms.....lb. 6.00 - —
Betanaphthylamine, tech., works, lb. .51 - —
Betapicoline, 90%, ret. dms., c.l., works..lb. 1.60 - —
l.c.l., works.....lb. 1.85 - —
95%, dms., works.....lb. 2.00 - —
98-99%, works.....lb. 2.20 - —
Betagammapicoline, dms., c.l., works..lb. .32½- —
l.c.l., works.....lb. .34½- —
Beth root, bls.....lb. .43 - .44
Bismuth chloride, bots.....lb. 3.00 - —
jars .....lb. 2.85 - —
Citrate, USP VIII, bots.....lb. 2.81 - 2.90
jars .....lb. 2.75 - —
Hydroxide, bots.....lb. 3.41 - 3.48
cns. .....lb. 3.35 - —
Metal, ton lots.....lb. 1.25 - —
Nitrate, cryst., bots.....lb. 1.41 - 1.49
cns. .....lb. 1.30 - —
Oxychloride, bots.....lb. 3.14 - 3.19
cns., dms., kgs.....lb. 3.10 - —
Subbensoate, bots.....lb. 3.51 - —
fib. dms.....lb. 3.40 - —
Subcarbonate, USP, bbls., dms., bots., cns.....lb. 1.90 - 1.53
bots., cns.....lb. 1.89 - 1.90
X-ray, 5-lb. bots.....lb. 2.70 - —
fib. dms.....lb. 2.73 - —
Subgallate, NF, bots., cns...lb. 1.40 - 1.53
fib. dms.....lb. 1.40 - 1.43
Subiodide, bots.....lb. 4.19 - 4.25
fib. dms.....lb. 4.13 - —
Subnitrate, USP, powd., bbls., dms..lb. 2.25 - —
bots .....lb. 1.20 - 1.23
Subsalicylate, USP, bbls., fib. dms..lb. 2.50 - —
5-lb cans.....lb. 2.54 - 2.59
Sulphocarbolate, bots.....lb. 3.71 - 3.74
fib. dms.....lb. 3.65 - —
Bismuth-ammonia citrate, USP, powd., dms..lb. 3.40 - —
cns. .....lb. 3.45 - 3.50
Black, acetylene, bgs., c.l., works..lb. .14 - —
l.c.l., works.....lb. .15 - —
Bone 1A, bgs., bbls., c.l., frt. alld. E..lb. .17 - —
2, bgs, bbls., c.l., same basis. lb. .12 - —
3, bgs, bbls., c.l., same basis. lb. .11 - —
4, bgs., bbls., c.l., same basis. lb. .08½- —
400A, bgs., bbls., c.l., same basis..lb. .08½- —
457, bgs., bbls., c.l., same basis..lb. 11¼- —

Bone black l.c.l. prices are ½c. higher than c.l. Pacific coast, ex dock, or whse., prices are 1½c. higher.

Carbon, channel, compressed, beads, bulk, c.l., works..lb. .05 - —
bgs., c.l., works.....lb. .055 - —
l.c.l., works.....lb. .06 - —
dlvd. or whse.....lb. .062 - —
uncompressed, regular, bgs., c.l., works..lb. .03625- —
bgs., ctns., l.c.l., dlvd. or whse..lb. .007 - —
Furnace, HMF, bgs., c.l., works..lb. .05 - —
ctns., l.c.l., whse.....lb. .07½- —
SRF, bgs., c.l., works....lb. .03½- —
ctns., l.c.l., whse.....lb. .05 - —
Thermatonic, bgs., c.l., works, La..lb. .04 - —
l.c.l., whse. Trenton, N. J. lb. .06½- —
Charcoal (see C).
Graphite (see G).
Iron oxide, magnetic, pure, bbls., l.c.l., works..lb. .06½- —
Lamp, 1, ctns., c.l., works..lb. .06½- —
l.c.l., works.....lb. .09 - —
2, ctns., c.l., works.....lb. .10 - —
l.c.l., works.....lb. .11 - —
2A, ctns., c.l., works.....lb. .12 - —
l.c.l., works.....lb. .13½- —
3, ctns., c.l., works.....lb. .14½- —
l.c.l., works.....lb. .15½- —
4, ctns., c.l., works.....lb. .16½- —
l.c.l., works.....lb. .17½- —
5, ctns., c.l., works.....lb. .20 - —
l.c.l., works.....lb. .28 - —
6, ctns., c.l., works.....lb. .26½- —
l.c.l., works.....lb. .27½- —
7, ctns., c.l., works.....lb. .37½- —
l.c.l., works.....lb. .38½- —
Mineral, vine type, bbls., l.c.l., works..lb. .04¾- —
Vine A, bbls.....lb. .04½- .05
B, bbls.....lb. .05¾- —
kegs .....lb. .06 - —
Black dyes (see Dyes).
Black haw root bark, bls.....lb. .84 - .85
Tree bark, bls.....lb. .40 - .45
Black Indian hemp root, bls..lb. .50 - .55
Blanc fixe, dry, by-product, bgs., c.l., works..ton.60.00 - —
l.c.l., works.....ton.67.00 - —
direct process, bgs., c.l., works..ton.70.00 - —
bbls., c.l., works....ton.75.00 - —
l.c.l., works.....ton.80.00 - —
pulp, 66%, bbls., c.l., works. ton.40.00 - —
l.c.l., same basis....ton.46.50 - —
Bleaching powder,[2] dms., c.l., works..100 lbs. 2.50 - 3.10
l.c.l., works.....100 lbs. 3.75 - 3.80
Blood,[1,7] dried, 16-16½% ammon., bgs..unit-ton. 5.50 - —
high-grade, unground, 16-17% ammon., bulk, Chicago. unit-ton. 5.50 - —
soluble, bgs., c.l., Chicago...lb. .13 - —
l.c.l., Chicago.....lb. .15 - .20
Bloodroot, bls.....lb. .65 - .70
Blue,[1] alkali, dry, bbls., dlvd. N. of Tenn. and N.C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.75 - —
Toner, bbls., same basis....lb. .85 - .90

# FROM WAREHOUSE STOCKS

*We offer for immediate shipment:*

| | |
|---|---|
| **CETYL ALCOHOL** | **PHENOL** |
| **CITRIC ACID** | **PINE OIL** |
| **CREAM OF TARTAR** | **ROCHELLE SALTS** |
| **HEXYLRESORCINOL** | **SODIUM BICHROMATE** |
| **HYDROGEN PEROXIDE** | **TARTARIC ACID** |
| **LACTIC ACID** | **TRIETHANOLAMINE** |
| **MYRISTYL ALCOHOL** | **TRISODIUM PHOSPHATE** |

WILLIAM D. NEUBERG COMPANY

*Chemicals*

GRAYBAR BUILDING • 420 LEXINGTON AVE • NEW YORK 17, N. Y.

TELEPHONE LEXINGTON 2-3324

CABLE "WILNEUBERG"

Blue, celestial, bbls., same basis, lb. .10 - .12
Chinese, bbls., same basis..lb. .36 - —
Cobalt, genuine, bbls., same basis..lb. 4.90 - —
Imitation (see Blue, ultramarine).
Copper phthalocyanin, full strength, bbls., same basis, lb. 3.50 - 3.75
80%, bbls., same basis...lb. 3.00 - —
green shade, bbls., same basis, lb. 4.50 - 4.90
Iron (see Blue, Chinese, Milori, Potash Prussian, and Soda).
Milori, bbls., same basis....lb. .86 - —
Molybdated, Victoria, bbls., same basis..lb. 3.15 - —
Peacock, fugitive, 100% color strength, same basis..lb. .52 - —
permanent toner, green shade, molybdic, bbls., same basis, lb. 3.50 - —
tungstic .....lb. 4.00 - —
Potash, CP, bbls., same basis, lb. .42 - —
Prussian, bbls., same basis..lb. .36 - —
soluble, bbls., same basis..lb. .36 - —
Soda, CP, bronze, bbls., same basis..lb. .36 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis, lb. .23 - .27
jobbing type, dry, bbls., same basis..lb. .12 - .13
regular types, dry or pulp, bbls., same basis..lb. .17 - .27
Victoria, toner, molybdic, bbls, lb. 3.15 - —
tungstic, bbls.....lb. 3.30 - —
ink toner, bbls., same basis, lb. 1.83 - —
synthetic vehicle, bbls., same basis..lb. 1.53 - —

Blue, violet, toner, molybdic, bbls., same basis..lb. 1.24 - —
tungstic, bgs., same basis..lb. 2.10 - —

Blue dry colors, divd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c.); Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher, Pac. Coast; Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.

Blue dyes are listed under Dyes.

Blue mass, NF, cns., tube....lb. 1.58 - 1.75
powd., bots., cns., dms.....lb. 1.61 - 1.75
Blueflag root, bls.....lb. .70 - .75
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Bone,[1] raw, bulk, Chicago...ton.57.00 -65.00
junk, bulk, same basis...ton.35.00 - —
Meal, raw, 4½% ammon., 50% phos., bgs., E. works..ton.37.50 - —
Chicago, works.....ton.39.50 - —
steamed, feeding grade, 1% ammon., 60% phos., bgs., E. works..ton.48.50 - —
Chicago, works.....ton.50.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works..ton.38.50 - —
Chicago, works.....ton.36.00 - —
Phosphate, defluorinated (see D).
Precipitated (see Calcium phosphate tribasic precip.).
Boneset leaves, bls.....lb. .16 - .17
Borage flowers, bls.....lb. No stocks
Borax, tech., 99½% gran., bulk, c.l., frt. alld..ton.41.50 - —
bgs., c.l., frt. alld....ton.45.00 - —
ton lots, ex whse.....ton.56.00 - —
less ton lots, ex whse.ton.61.00 - —
bbls., c.l., frt. alld.....ton.55.00 - —
ton lots, ex whse.....ton.66.00 - —
less ton lots, ex whse.ton.71.00 - —

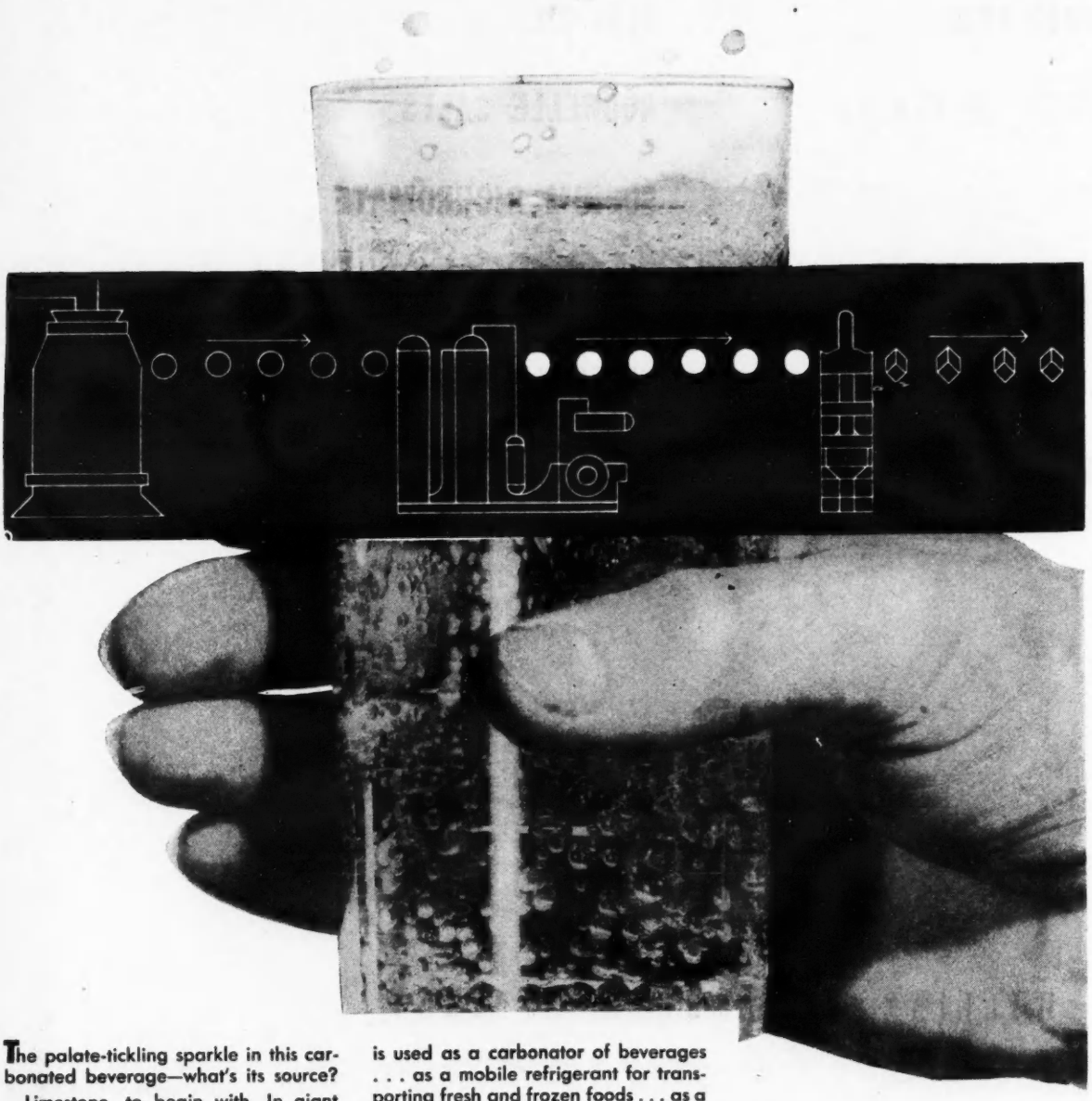
Borax, tech., 99½%, powd., bgs., c.l., frt. alld..ton.50.00 - —
ton lots, ex whse.....ton.61.00 - —
less ton lots, ex whse.ton.66.00 - —
bbls., c.l., frt. alld.....ton.60.00 - —
ton lots, ex whse.....ton.71.00 - —
less ton lots, ex whse.ton.76.00 - —
USP, $15 per ton higher.
Bordeaux mixt., dms., c.l., whse., works, frt. alld..lb. .11 - —
l.c.l., same basis.....lb .11½- —
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., frt. alld. E. of Rockies..lb. .23 - —
single pkgs., same basis..lb. .28 - —
Brazilwood extract (see Hypernic).
Bromoform, USP, bots.....lb. 1.50 - —
cbys. .....lb. 1.42 - —
Bromstyrol .....lb. 5.20 - 5.25
Bronze powder, aluminum (see A).
Gold, litho., cns., dms., works, lb. .60 - .65
moulding, cns., dms., same basis..lb. .80 - 1.00
printing ink, cns., dms., same basis..lb. .95 - 1.20
radiator, cns., dms., same basis..lb. .45 - .50
Broomtop, bls.....lb. .14 - .16
Brown, iron-oxide, pure, precip., cks., works..lb. .12 - —
Metallic, bbls., c.l., works..lb. .02½- —
Sap, crystals, works.....lb. .12 - —
powdered .....lb .13 -

Brown, sienna, burnt., American, bbls., works..lb. .06½- .08
pap. bgs., c.l., same basis, lb. .0235- —
Italian type, bbls., works, lb. .09¾- .10¾
raw, American, bbls., works, lb. .04 - .10
Italian type, bbls., works, lb. .08 - .10
Umber, burnt, American, bbls., works..lb. .08¼- —
Italian-type, bbls., works.lb. .04¾- —
Turkey-type, bbls., c.l., Boston, Bethlehem, Easton, Pa.; N. Y..lb. .04¾- —
St. Louis, Chicago, Indianapolis, New Orleans..lb. .05¾- —
Minneapolis .....lb. .0535- —
Pittsburgh .....lb. .05 - —
ex car, Los Angeles..lb. .05¾- —
Portland, San Francisco, Seattle..lb. .05½- —
ex whse, Los Angeles, lb. .05¾- —
Portland, San Francisco, Seattle..lb. .05¾- —
Vandyke, reg., bbls., works..lb. .09 - —
special, bbls., works.....lb. .12 - —
Brucine, cns., 100 ozs.....oz. .35 - —
Sulphate, cns., 100 ozs.....oz. .30 - —
Bryonia root, bls.....lb. .58 - .60
Buchu leaves, bls.....lb. .83 - .85
Buckthorn bark, bls.....lb. .47 - .50
Berries, bgs.....lb. .60 - .70
Burdock root, bls.....lb. .35 - .37
Burgundy pitch, dom., dms...lb. .08 - —
Butane,[1] indust., tanks, (group 3, gal. .03½- —
Butyl acetate, normal,[1] fermenent, Ill., Ind., prod., dms., c.l., frt. alld. E. of Miss. R. lb. .1895- —
l.c.l., same basis.....lb. .1945- —
tanks, same basis.....lb. .1795- —
tankwagon, same basis.lb. .1830- —
other production dms., c.l., same basis..lb. .1900- —
l.c.l., same basis....lb. .1950- —
tanks, same basis...lb .1800- —
synthetic, dms., c.l., same basis..lb. .11¼- —
l.c.l., same basis.....lb. .12¼- —
tanks, same basis.....lb. .10¾- —
secondary,[1] dms., c.l., divd. E. of Miss. R..lb. .09½- —
l.c.l., same basis.....lb. .10 - —
tanks, same basis.....lb. .08½- —
Normal butyl acetate, W. of Miss. R., ½c. per lb. higher.
Aldehyde, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Ether (see Ether, butyl).
Lactate, dms., works.....lb. .26½- —
Laurate, dms., works.....lb. .42 - —
Myristate, dms., works.....lb. .41 - —
Oleate, ref., dms., l.c.l., works, lb. .85 - —
tech., dms., c.l., works.....lb. .24 - —
l.c.l., works.....lb. .24½- .26½
Phenylacetate, dms.....lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., divd.....lb. .16½- .17
tanks, divd.....lb. .15½- —
Stearate, dms.....lb. .21½- —
Butyric ether, bots.....gal. 6.50 - 6.95
cns., works.....lb. .65 - .70
dms., works.....lb. .60 - —

## C

Cadmium bromide, bots.....lb. 1.84 - 1.91
jars .....lb. 1.65 - 1.70
Iodide, bots.....lb. 4.23 - —
cns. .....lb. 4.09 - —
Lithopone (see Yellow).
Metal,[1,5] ingots or sticks, divd, lb. .90 - —
pat. shapes, cs., divd.....lb. .95 - —
Selenide (see Red).
Sulphide (see Yellow).
Caffeine,[1] dms., 100 lbs. or more, lb. 2.80 - 2.85
smaller lots.....lb. 2.95 - 3.25
anhydrous, dms., 100 lbs. or more..lb. 3.00 - 3.05
smaller lots.....lb. 3.15 - 3.45
Citrated, dms., 100 lbs. or more, lb. 1.95 - —
smaller lots.....lb. 2.05 - 2.30
Hydrobromide, bots.....lb. 5.29 - 5.37
Calabar beans, bgs., futures, lb. .60 - .65
Calamus root, natural, dom., bls, lb. .70 - .75
Calciferol, in corn oil, dms., 10,000 units or more, works, unit. .10 - —
1,000 to 10,000 units, works, unit. .11 - —
less than 1,000 units, works, unit. .12 - —
Calcium acetate, bgs., divd..... 100 lbs. 3.00 - 4.00
Arsenate, bgs., c.l., whse., wks., frt. alld..lb. .07½- .08
l.c.l., same basis.....lb. .08 - .08½
Bromide, N.F., jars.....lb. .65 - .70
Carbide,[5] dms., c.l., works.ton.50.00 divd. .....ton.87.00 -90.00
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars..lb. .28 - .30
flake, 77-80%, paper bgs., c.l., divd..ton.18.50 -33.00
l.c.l., divd.....ton.23.50 -45.00
liquor, basis 40%, tanks, works..ton. 7.50 - —
solid, 73-75%, dms., c.l., divd. ton.18.00 -34.50
l.c.l., divd.....ton.23.00 -44.50
Calcium chloride prices vary according to zone; minimum prices are for spot delivery. C.l. prices for flake in burlap paper-lined bags, $2.50 per ton over paper bags; drums, $3.50 per ton over paper bags.
Cyanide, dms., delivered E. of Rockies..lb .25 - .40
Gluconate, USP, gran., bbls..lb .52 - —
dms .....lb. .57 - .80
cns. .....lb. .70 - —
wwd., 2c. per lb. lower.
Glutamate, kgs.....lb. 1.50 - —
Glycerophosphate, fiber dms, 1,000-lb. lots..lb. 1.25 - —
smaller lots.....lb. 1.65 - —
Iodide, bots., jars.....lb. 4.04 - 4.19
Lactate, edible, dms.....lb. .21 - —
USP, bbls .....lb. .25 - .27
Laurate, bbls.....lb. .28 - .29
Mandelate, USP dense, fluffy, dms..lb 2.05 - 2.20
Naphthenate, 4% Ca, 50-gal. dms..lb 22½- —
Pantothenate, dex., 100-gram bots..per gram. 18 - —
Phosphate, feeding grade, bgs., works..ton.75.00 - —
food grade, bbls., 10 over works..lb .07 - .07¾
less than 10, works .....lb. .08 - .10
medicinal, dibasic, bgs..... 100 lbs.11.40 -18.00


WHERE THE LIFE GIVING SPARKLE COMES FROM



The palate-tickling sparkle in this carbonated beverage—what's its source?

Limestone, to begin with. In giant kilns limestone and coke are burned to form quicklime and carbon dioxide gas ($CO_2$). From there the carbon dioxide gas goes to a unit where it is purified and compressed into a liquid. This is conducted to a press, where it is allowed to expand to form "snow," which is pressed into blocks of *Dry Ice—140° colder than ordinary ice.* Dry Ice is used as a carbonator of beverages . . . as a mobile refrigerant for transporting fresh and frozen foods . . . as a fire extinguisher . . . in many other ways.

The Wyandotte quarries at Alpena, Michigan, are kept busy furnishing limestone for the Wyandotte Dry Ice Plant at Wyandotte—the largest in the world. And from Wyandotte go also thousands of tons of chemicals each year to the soap, textile, paper, glass and other industries.

Wyandotte
REG. U. S. PAT. OFF.
OFFICES IN PRINCIPAL CITIES

WYANDOTTE CHEMICALS CORPORATION • WYANDOTTE, MICHIGAN

Soda Ash • Caustic Soda • Bicarbonate of Soda • Calcium Carbonate • Calcium Chloride • Chlorine
Hydrogen • Sodium Zincates • Aromatic Intermediates • Dry Ice • Other Organic and Inorganic Chemicals

Calcium phosphate, cryst., bgs., c.l., works, frt. equald. lb. .05¾- —
l.c.l., frt. equald.....lb. .06 - .06½
tribasic, bbls., c.l., works..lb. .0625- —
bgs., l.c.l., works.....lb. .0645- .0650
Resinate, precip., 5.8% Ca, 100-lb. dms..lb. .15½- —
Silicate, hydrated, c.l., bgs., works..lb. .05½- —
l.c.l., works.....lb. .06 - —
Stearate, precip., ctns., c.l., works..lb. .25 - —
l.c.l., works.....lb. .26 - .28
Sulphate (see Gypsum).
Sulphide, 70%, bgs., c.l., works. ton.45.00 - —
80%, bgs., c.l., works....ton.50.00 - —
luminous, tins, works.....lb. 1.00 - —
Sulphocarbolate, bbls.....lb. .42 - .46
Tallate, 3%-4% Ca, 50-gal. dms. lb. .13½- .19½
Calcium-strontium sulphide, phosphorescent, dms., works..lb. 1.00 - 1.50
fine particle size, works.. lb. 1.50 - 1.75
Calendula flowers, bls.....lb. 2.00 - 2.05
Calomel, bbls., dms.....lb. 2.44 - 2.45
Camphor, natural .....lb. No stocks
synth., tech., bbls., contract, 2,000 lbs. or more, works.lb. .42 - —
10 bbls. (1,500 lbs.).....lb. .44½- —
5 to 9 bbls.....lb. .45 - —
1 to 4 bbls.....lb. .46 - —
smaller lots.....lb. .48 - .55
USP, gran., powd., bbls., 2,000-lb. lots..lb. .69 - —
1,000-lb. lots.....lb. .70 - —
smaller lots.....lb. .71 - —
tablets, 2,000-lb. lots.....lb. .82 - —
1,000-lb. lots.....lb. .83 - —
smaller lots.....lb. .84 - —
Camphor, monobromated, dms.lb. 3.20 - —
Canada balsam (see Fir balsam).
Cantharides .....lb. No stocks
Capsicum (see Pepper, red).
Capsicum oleoresin, USP VII, cns..lb. 4.50 - 4.65
Caramel coloring, bbls.....gal. .70 - 1.10
Caraway seed,[1] California, Dutch type..lb. No stocks
Canadian, bgs.....lb. .53 - .54
Danish, bgs., futures.....lb. .53 - .54
Dutch, bgs., futures.....lb. .58 - .59
Morocco, dewhiskered, futures, bgs..lb. .58 - .60
natural, bgs., futures.....lb. .44 - .45
Spanish, dewhiskered, bgs...lb. No stocks
Syrian, dewhiskered, futures, bgs..lb. .58 - .60
Carbazole, 95%, dms., ton lots, works..lb. .70 - —
smaller lots, works.....lb. .80 - —
98%, dms., ton lots, works...lb. .75 - —
smaller lots, works.....lb. .85 - —
Carbinol, butyl, norm, dms., l.c.l., works..lb. .37 - —
secondary, dms., l.c.l., works. lb. .69 - —
Isobutyl, dms., c.l., works..lb. .22½- —
l.c.l., works.....lb. .23½- —
tanks, works.....lb. .21½- —
Methylisobutyl, dms., c.l., nearest delivery point buyer's works..lb. .11¾- —
l.c.l., same basis.....lb. .12½- —
tanks, same basis.....lb. .10¾- —
Bisulphide, 55-gal. dms., c.l., frt. all. E. of Miss. R., N. of Ohio R..lb. .05 - —
l.c.l., same basis.....lb. .05¾- —
5-gal. dms., c.l., same basis. lb. .07 - .07½
l.c.l., same basis.....lb. .08 - .08½
Dioxide, cyls.....lb. .06 - .08
Tetrachloride,[1] c.p., dms., c.l lb. .07½- —
l.c.l .....lb. .08 - —
tech., Zone 1, 52½-gal. dms., c.l., frt. alld..gal. .73 - —
l.c.l., frt. alld.....gal. .80 - —
5 or 10-gal. dms., c.l., frt. alld..gal. .97 - —
l.c.l., frt. alld.....gal. 1.07 - —
Zone 2, 52½-gal. dms., c.l., frt. alld..gal. .80 - —
l.c.l., frt. alld.....gal. .87 - —
5 or 10 gal. dms., c.l., frt. alld..gal. 1.04 - —
l.c.l., frt. alld.....gal. 1.14 - —
Zone 3, 52½-gal. dms., c.l., frt. alld..gal. .94 - —
l.c.l., frt. alld.....gal. 1.00 - —
5 or 10-gal. dms., c.l., frt. alld..gal. 1.17 - —
l.c.l., frt. alld.....gal. 1.27 - —
Zone 4, 52½-gal. dms., c.l. gal. .88 - —
5 or 10-gal. dms., c.l..gal. 1.07 - —
l.c.l. .....gal. 1.17 - —
USP, cbys.....lb. .17 - .19

Carbon tetrachloride prices are frt. alld. with the exception of Zone 4, where prices are f.o.b. cars, L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Sales zones are:—1, Conn., Del., Ill., Ind., Ia., Me., Mass., Md., Mich., Minn., Mo., N. H. N. J., N. Y., N. C., O., Pa., R. I., Tenn. Va., W. Va., Wis., and river cities of Burlington, Ia., and Kansas City, Kans. 2 Ala., Ark., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D.; 3, Colo., N. Mex., Tex., and Montana points E. of Billings; 4, Ariz., Cal., Idaho., Nev., Ore. Utah, Wash. and Montana points W. of Billings.

Cardamom,[1] bleached, bold, cs., lb. 1.35 - 1.40
medium, cs.....lb. 1.30 - 1.35
decorticated, Guatemala, cs..lb. 1.10 - 1.12
India, cs.....lb. 1.15 - 1.20
green, Alleppey, bgs.....lb. .90 - .92
Carotene, cryst., 1,350,000 A units per gm., tins, works, 1,000,000 units. .50 - —
research grade (alpha, 10%; beta, 90%), amps, 100 grams, dlvd..gram. 2.85 - —
50 grams, dlvd.....gram. 2.90 - —
in vegetable oil, 250,000 USP units per gm., bots., works lb.37.80 - —
50,000 USP units per gm. bots., works..lb. 8.42 - —
dms., works.....lb. 7.68 - —
8,800 A units per gm., tins, works, 1,000,000 units. .55 - —
dms., works..1,000,000 units. .50 - —
3,300 USP units per gm., dms., works..lb. .66 - .71
Carvol, bots.....lb.16.00 -20.00
Cascara sagrada bark, bulk. .o. .43 - .45
Case-hardening mixture, 30% gran., dms., l.c.l..lb. .09¾- —
slabs, dms., l.c.l.....lb. .08¾- —
Casein,[1] dom., acid-precip., bgs., 100 or more, ship't point..lb. .24 - —
20 to 99, same basis....lb. .24½- —
less than 20, same basis. lb. .24¾- —
rennet-precip., bgs., 100 or more, same basis..lb. .25½- —
20 to 99, same basis....lb. .25¾- —
less than 20.....lb. .26¼- —
imp., acid-precip., ground, bgs., 100 bgs. or more..lb. .24 - —
rennet-precip., unground, bgs., 100 bgs. or more..lb. .23½- .23⅝

Cassia,[1,7] China, buds, bgs., futures..lb. .46 - .47
rolls, selected, cs., futures, lb. .46 - .47
extra select, broken, bls., futures..lb. .42 - .45
Cassia fistula, bakts.....lb. .26 - .28
Castor bean,[1,7] bgs., c.i.f. first arrival point, U.S..long ton.118.00 - —
Oil (see Oil, castor).
Pomace,[1] bgs., c.l., works..... unit-ton. 2.90 - —
Castoreum, nat., cns.....lb.12.00 -13.00
synth, bots.....lb.10.00 - —
Catechol, CP, cryst., works, fib. dms., frt. alld..lb. 1.90 - —
resublimed, works, frt. alld., dms..lb. 3.25 - —
Catnep, bls.....lb. .50 - .55
Celery seed,[1] French, bgs.....lb. 1.00 Nom.
Indian, bgs.....lb. .22 - .23
Celluloid scrap (see Pyroxylin scrap)
Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb .30 - —
granules, ctns., same basis.lb .35 - —
Acetate-butyrate, flake, high (36.5%) butyryl content, 50-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .45 - —
1,000-4,900 lbs., frt. alld.lb. .46 - —
100-900 lbs., frt. alld...lb. .47 - —
smaller pkgs. works....lb. .48 - —
medium (15.5 or 17.0%), 50 lb. ctns., 5,000 lbs. and up, frt. alld..lb. .43 - —
1,000-4,900 lbs., frt. alld.. lb. .44 - —
100-900 lbs., frt. alld....lb. .45 - —
smaller pkgs., works....lb. .46 - —
Granules are 5c. per lb. higher, all quantities.

Cellulose acetate-propionate, flake, high (31.5%) propionyl content), 50-lb. ctn., 5,000 lbs. and up, frt. alld..lb. .45 - —
1,000-4,900 lbs., frt alld.lb. .46 - —
100-900 lbs., frt. alld....lb. .47 - —
smaller pkgs., works....lb. .48 - —
Granules are 5c. per lb. higher, all quantities.
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .30 - —
Cerium hydrate, dms., works..lb. .60 - —
Oxalate, USP, bbls., works..lb. .35 - —
kgs., works.....lb. .37 - —
Oxide, optical grade, kgs., 100-lb. lots, works..lb. 1.50 - —
bgs., smaller lots, works.lb. 2.00 - —
Chalk, precipitated, cosmetic, dentifrice, and drug, bgs., c.l., works..lb. .02⅞- —
paint and other industries, bgs., c.l., works..ton.40.00 - —
papermakers, bgs., c.l., works. ton.32.50 - —
rubbermakers, bgs., c.l., works ton.30.00 - —
Chamomile, Hungarian type, cs lb. .52 - .58
Roman, bls., futures.....lb. 1.75 - 1.80
Charcoal, hardwood, lump, bulk, c.l., works..ton.31.25 - —
bur bgs., ret., c.l., works. ton.31.00 -32.75
briquets, bulk, c.l., works... ton.35.00 - —
bgs., c.l., works.....ton.40.00 -41.00
granular, all grades, bgs., incl., works..ton.44.00 - —
screenings, bur bgs., ret., c.l., works..ton.23.65 - —
Pinewood,[1] lump, bgs., c.l., Southern shipping points. ton.20.00 - —

Charcoal, pinewood, granular, powd., bgs., c.l., works, South..ton.30.20 - —
Willow, powd., bbls.....lb. .06 - .07
l.c.l., works.....ton.41.00 - —
Chestnut extract,[1,6] standard 25% tannin, bbls., c.l., works..100 lbs. 3.22 - 3.55
l.c.l., works.....100 lbs. 3.47 - 3.80
tanks, works.....100 lbs. 2.62 - 2.96
powdered, 65% tannin, bags extra, c.l., works.100 lbs. 7.46 - 8.32
l.c.l., works.....100 lbs. 8.21 - 9.07
Chillies (see Pepper, red).
China clay,[1] dom., dry-grd., air-float, 99.75%, 200 mesh, bgs., c.l., works..ton. 9.50 - —
l.c.l., works....ton.16.00 - —
bulk, c.l., works.ton. 7.60 - —
200 mesh, bgs., c.l., works..ton. 8.50 - —
l.c.l., works.....ton. 9.50 -15.50
wet-grd., silk-bolt, 99½%, 325 mesh, bulk, c.l., works, ton. 9.50 - —
paper bgs., c.l., works.ton.12.50 - —
import, white, lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila..ton.19.00 -24.00
powd., cks.,l .c.l., ex whse.ton.41.00 -
Chloral hydrate, jars.....lb. .98 - .98
dms. .....lb. .90 - .95
Chlorinated rubber,[6] standard, ctns., 100 lbs. up, works.lb. .32 - —
smaller lots, works.....lb. .35 - —
1-lb. bots., ex whse.....lb. 1.25 - —
Chlorine, liquid, cyls., c.l....lb. .05¾- —
contracts .....lb. .05¾- —
l.c.l. .....lb. .07¾- —
Chlorine, tanks, single units, works, frt. equald.100 lbs. 1.75 - —
multiple units, 3 or over, works, frt. equald..100 lbs. 2.00 - —
2 wks., frt. equald.100 lbs. 2.50 - —
1 wks., frt. equald.100 lbs. 3.00 - —
Chloroform, tech., dms.....lb. .20 - .23
USP, dms.....lb. .30 - .33


Spot Deliveries

HEAVY CALCINED MAGNESIA White
MAGNESIUM METAL POWDER High Purity
CAUSTIC POTASH
88% - 92% SOAP POWDER & SOAP FLAKES
COPPER SULPHATE
DICALCIUM PHOSPHATE Pure Food Grade
BLEACHING POWDER 35% - 37%
DDT
CAUSTIC SODA
ZINC OXIDE American Process
ALUMINUM ACETATE
METHYLENE CHLORIDE
SODIUM BICHROMATE
CITRIC ACID

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Distributors for THE RUFERT CHEMICAL COMPANY

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NICKEL OXIDE, etc.

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CHEMICALS CORPORATION

420 LEXINGTON AVENUE • NEW YORK 17, N. Y. • PHONE LE 2-9740

Chloropicrin, com'l, 100-lb. cyl., 100-lb. cyls., same basis...lb. .82 - —
25-lb. cyls., ex whse.....lb. 1.00 - —
1-lb. bots., ex whse.....lb. 1.25 - —

Choline chloride, fib. dms.....lb. 3.00 - 3.10
Dihydrogen citrate, fib. dms.lb. 3.00 - 3.10

Chrome acetate, powd., 32% Cr., bbls., works..lb. .32 - .34
ton lots, works.....lb. .30 - .32
solut., 9% bbls., cs.....lb. .07½- —
7½%, bbls., cs.....lb. .06½- —

Fluoride, bbls., wks.....lb. .24 - .27
Cake, bulk, c.l., works.....ton.16.00 - —
Ore[1] residue, paper bgs., c.l., works..ton.15.00 - —
Oxide (see Green, chrome oxide).
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).

Chrysarobin, bots.....lb. 6.02 - 6.06
Cinchona bark,[6] red, quill, USP, 10 in., cas..lb. 1.20 Nom.
Cinchonidine,[6] small, cryst., cns., 100 ozs..oz. No prices
Sulphate, NF, cns., 100 ozs..oz. No prices
Cinchonine[6] small, cryst., cns., 100 ozs..oz. No prices
large, cryst., cns., 100 ozs..oz. No prices
Sulphate, NF, cns., 100 ozs..oz. No prices
Cinchophen, NF, heavy, dms..lb. 3.70 - 3.80
standard, dms.....lb. 3.50 - 3.60
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, cbys., ens., dms....lb. .85 - .95
Cinnamon,[1,7] Ceylon, O, bis., fixtures..lb. .3202- —
OO, bis., futures.....lb. .5320- —
OOO, bis., futures.....lb. .5407- —
OOOO, bis., futures.....lb. .5494- —
No. 1, bis., futures.....lb. .5145- —
2, bis., futures.....lb. .5058- —
3, bis., futures.....lb. .4958- —
4, bis., futures.....lb. .4858- —
Citral, bots., cns.....lb. 4.50 - 6.50
Citrine, ointment, jars.....lb. .95 - 1.15
Citronellal, bots., dms.....lb. No prices
Citronellol, bots., dms.....lb. No prices
Clove,[1] Madagascar, bis.....lb. .16¾- .17¼
futures, bis.....lb. .16 - .16⅞
Zanzibar, bis.....lb. .17¼- .17⅝
futures, bis.....lb. .17¼- .17⅝
Clover tops, red, dom., bgs....lb. .50 - .55
imported, bgs.....lb. No stocks
Coaltar, coal-gas, crude, 50 gal., bbls., c.l., works..bbl. 8.25 - —
l.c.l., works.....bbl. 8.75 - —
tanks, works.....gal. .07½- .08½
refd., 50-gal., bbls., c.l., wks. bbl. 8.75 - —
l.c.l., works.....bbl. 9.25 - —
tanks, works.....gal. .08½- —
water-gas, crude, 55 gal., dms., c.l., works..bbl. 8.25 - —
l.c.l., works.....dm. 8.75 - —
refd., 55-gal. dms., c.l., wks. dm. 8.75 - —
l.c.l., works.....dm. 9.25 - —
Cobalt acetate, bbls., kgs., dlvd.. lb. .83¾- —
feed grade, 49.5% Co, kgs..lb. 1.25 - —
Carbonate, powd., bgs., works.. lb. 1.58 - —
feed grade, 23% Co, kgs....lb. 1.85 - —
Chloride, kgs., works.....lb. .87½- —
feed grade, 24.5% Co, kgs..lb. 1.25 - —
Hydrate, bbls.....lb. 2.04 - —
feed grade, 62% Co, kgs....lb. 2.25 - —
Linoleate, paste, 5%, dms..lb. .32 - .35
solid, 8½%, dms.....lb. .44 - —
Nitrate, feed grade, 20.4% Co, kgs..lb. 1.25 - —
Oleate, bbls.....lb. .44 Nom.
Oxide,[1] black, kgs.....lb. 1.84 - —
Phosphate, feed grade, 34% Co, kgs..lb. 1.75 - —
Resinate, precip., 7.5% Co, 100-lb. dms..lb. .33½- —
Soyate, 8%-8.5% Co, 50-gal. dms..lb. .42 - .44
Sulphate,[6] dms.....lb. .65 - —
feed grade, 21% Co, kgs....lb. 1.00 - —
Cobalt salts, feed grade, quotations are f.o.b. Philadelphia, Cleveland or New York.
Cobalt-ammonium sulphate, 14% Co, kgs..lb. .7b - —
Cocaine hydrochloride, 100-oz. lots, cns..oz. 9.75 - —
Cochineal, gray, bgs.....lb. .46 - .47
silver, Teneriffe, bgs.....lb. .47 - .48
Cocoa butter,[1,7] bulk, ship. pt.lb. .25 - —
Cocillana bark, bgs.....lb. No prices
Codeine, cns., 100 ozs.....oz.11.70 - —
Hydrochloride, cns., 100 ozs.oz.10.50 - —
Phosphate, cns., 100 ozs.....oz. 9.00 - —
Sulphate, cns., 100 ozs.....oz. 9.50 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bis.....lb. .18 - .19
blue, bis.....lb. .22 - .25
Colchicine, bots., cns.....oz. No stocks
Colchicum seed.....lb. No stocks
Collodion, USP, dms.....lb. .19½- .20½
cns.....lb. .23 - .29½
Flexible, USP, dms.....lb. .21 - .22
cns.....lb. .25 - .31
Colocynth pulp, bis.....lb. .55 - .60
Colombo root, bis.....lb. .17 - .18
Coltsfoot leaves, bgs.....lb. No stocks
Condurango bark, bgs.....lb. .12 - .13
Copaiba balsam, Para, cns....lb. No stocks
S. A., USP, cns.....lb. .95 - 1.00
Copper acetate, cupric, bbls., works..lb. .25½- —
smaller containers, wks..lb. .27 - —
Carbonate, 52-54%, bbls.....lb. .19½- .20½
Chloride, anhyd., bbls.....lb. .22½- .23
crystals, bbls.....lb. .14¾- .17
Cyanide, tech., bbls.....lb. .34 - .38
Iodide, bots.....lb. 5.15 - 5.19
Metal,[1] electrolytic.....lb. .12 - .13½
Naphthenate, 6%-8% Cu, 50-gal. dms..lb. .15 - .17
Nitrate, tech., cryst., bbls..lb. .19¼- .20½
Oleate, precip., bbls.....lb. .22½- .28½
Copper oxide, black, bbls., works, lb. .10 - .20
red, com'l, bbls., works....lb. .31 - .34½
Oxychloride-sulphate,[6] bgs...lb. .17 - .20
Resinate, precip., 8.5% Cu, 125-lb. dms..lb. .13½- .16
Sulphate,[1] 99%, cryst., bgs., c.l., works..100 lbs. 5.00 - —
l.c.l., 700 to 36,000 lbs.. 100 lbs. 5.15 - 5.50
monohydrated, bgs., in dms., 36,000-lb. lots, dlvd..100 lbs.10.20 - —
smaller lots, dlvd..100 lbs.10.95 - —
dms., c.l., dlvd.....100 lbs. 8.95 - 9.20
l.c.l., dlvd.....100 lbs. 9.95 -10.20
Copperas, cryst., gran., bgs., c.l., works..ton.17.00 - —
l.c.l., works.....100 lbs. 1.55 - 2.00
bbls., c.l., works.....ton.20.00 - —
bulk, c.l., works.....ton.14.00 - —
Copra,[7] Coast, ship't.....lb. No prices
Coriander[1] seed, Argentine, bgs. lb. .09 - .09½
Indian, bgs.....lb. No stocks
Morocco, bgs.....lb. .09½- .10
Peru, bgs.....lb. .09½- .10
So. American, bgs.....lb. .10 - .10½
Corn silk, bis.....lb. .45 - .46
Cyclohexanol, 98 - 100%, dms., works..lb. .21 - .23
Corn sugar, tanners, chipped, bgs., c.l., dlvd..100 lbs. 3.905 - —
slabs, bbls., c.l., dlvd.... 100 lbs. 3.825 - —
Syrup, 42°, bbls., c.l., dlvd. 100 lbs. 4.221 - —
43°, bbls., c.l., dlvd..100 lbs. 4.271 - —
Corrosive sublimate,[6] cryst., dms., 50 lbs. or more..lb. 2.07 - —
gran., powd., dms., 50 lbs. or more..lb. 1.92 - —
Cottonroot bark, bis.....lb. .22 - .25
Cottonseed hull ash, 32-36% pot-ash, bgs., dlvd..unit-ton. 1.20 - —
Meal,[1,7] 41% protein, bulk, Memphis, c.l..ton.45.00 -49.75
Coumarin,[1] cns., 5 lbs. or more.. lb. 2.75 - —
smaller lots.....lb. 2.90 - 3.10
Cramp bark, NF, bis.....lb. .80 - .81
Cream of tartar, dom., USP, gran. or powd., bbls., 5,000 lbs. one ship't..lb. .51½- —
smaller lots, bbls., kgs., lb. .52 - .52½
imported, bis.....lb. .50 - .55
Creosote carbonate, bots., cbys., lb. 2.10 - 2.30
Coaltar (see Cresol).
Oil,[2] coaltar, crude, tanks, works..gal. .15½- —
refined, dms., c.l., works, gal. .247 - .3333
l.c.l., same basis....gal. .26 - .35
tanks, same basis....gal. .13 - .18½
solution, tanks, works....gal. .141 - —
Wood, beech, bots., cbys....lb. .85 - 1.04
Hardwood, N.F., bots., cbys. lb. .60 - .77
Pine, dms.....gal. .31 - .32
Cresol,[2,6] special resin grades, dms., c.l., works, frt. equald., lb. .09½- .10½
l.c.l., same basis.....lb. .10 - .11
tanks, same basis.....lb. .08¾- .09¾
USP, dms., c.l., same basis..lb. .10¾- .11¾
l.c.l., same basis.....lb. .11¼- .11¾
tanks, same basis.....lb. .10 - .10½
Crotonaldehyde, 97%, l.c.l., 55 and 110-gal. dms..lb. .15 - —
5 and 10-gal. dms., works.. lb. .18 - —
Cryolite, nat.,[4] bgs., bbls., c.l., works..100 lbs. 9.50 - 9.75
bbls., l.c.l., works....100 lbs.10.00 - —
synth.,[4] bgs., bbls., c.l., frt. alld. E. of Miss. R..lb. .08½- —
l.c.l., works.....lb. .09¼- —
Cube root, 5% rotenone, bbls., works..lb. .40 - —
4% rotenone, bbls., works..lb. .32 - —
Cubeb berries, XX, bgs.....lb. No stocks
powd., cs.....lb. No stocks
Culver's root, bis.....lb. .25 - .28
Cumin seed, Cyprus, bgs.....lb. No stocks
Indian, bgs., futures.....lb. .34½- .35
Morocco, bgs.....lb. No stocks
Persian, bgs.....lb. .36 - .36½
Syrian, bgs.....lb. .40 - .41
Cutch, bgs.....lb. No stocks
Cyanamide,[4] fertilizer mixing grades, guaranteed, 20.6% N, gran., bulk, Niagara Falls, Ont., contracts, bulk, unit-ton. 1.62½- —
21% N., pulv., bgs., same basis..unit-ton. 1.52½- —
Cyclohexane, tech., dms., c.l., works..lb. .10½- —
l.c.l., works.....lb. .11 - —
tanks, works.....lb. .09½- —
Cyclohexanone, 97½% min., dms., c.l., works..lb. .30 - .32
tech., dms., c.l., works....lb. .30 - —
l.c.l., works.....lb. .30½- —
tanks, works.....lb. .29 - —
Cyclopropane, USP, cyls., dlvd., gal. .37 - —

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Damiana leaves, bis.....lb. .45 - .46
Dandelion root, bis.....lb. .70 - .75
DDT, fiber, dms., c.l., works..lb. .45 - —
ton lots, works.....lb. .50 - —
tins, smaller lots, works.lb. .53 - .60
Decanol, normal, tech., dms., dlvd..lb. .35 - —
Deertongue, bis.....lb. .34 - .38
Defluorinated phosphate,[1] paper bgs., works..ton.34.25 - —
Degras,[1] common, bbls.....lb. .10 - .12
neutral, less 2% ffa, bbls....lb. .28 - .30
over 2% ffa, bbls.....lb. .26½- .28½
Derris root (see Cube root).
Dextrin, British gum, bgs., c.l.,
Chicago .....100 lbs. 4.93 - —
l.c.l. .....100 lbs. 5.39 - —
Chicago .....100 lbs. 5.03 - —
Corn, canary, bgs., c.l..100 lbs. 5.04 - —
Chicago .....100 lbs. 4.68 - —
l.c.l. .....100 lbs. 5.14 - —
Chicago .....100 lbs. 4.78 - —
white, bgs., c.l.....100 lbs. 4.97 - —
Chicago .....100 lbs. 4.61 - —
l.c.l. .....100 lbs. 5.07 - —
Chicago .....100 lbs. 4.71 - —
Potato, bgs., c.l.....lb. .10 - —
l.c.l. .....lb. .10¼- .11¾
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grades, bots...lb. 5.50 - 5.55
laboratory grade, bots..... 100 grams. 4.50 - —
tech., bots., works.....lb. 3.00 - —
Diamyl ether (see Amyl ether).
Phthalate,[6] dms., c.l., dlvd..lb. .2170- .2200
l.c.l., dlvd.....lb. .2220- .2250
tanks, dlvd.....lb. .2070- .2100
Sulphide, l.c.l., dms., works.lb. .25 - —
Diatomaceous earth, dom., CP, bgs., c.l., Atlantic coast..lb. .07 - —
l.c.l., ex whse.....lb. .10 - .16
nat. bgs., c.l., Pacific coast. ton.22.00 -25.00
l.c.l., ex whse.....ton.45.00 - —
purified, bgs., c.l., Atlantic coast..ton.55.00 -59.00
l.c.l., ex whse.....ton.85.00 - 90.00

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Ceramics—
Number 4 in a Series depicting the industries served by the products of Niagara..." An Essential Part of America's Great Chemical Enterprise".
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Outstanding among these advancements is the application of one-coat porcelain enamels for steel...the use of ceramics in battery housings...the development of colorful and decorative tiles for roofs and loadbearing walls...special insulating materials for electrical equipment...improved linings for chemical producing equipment and furnaces.
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Carbonate of Potash • Liquid Chlorine • Nitrobenzol
An Essential Part of America's Great Chemical Enterprise

Diatomaceous earth, imported, Algerian, bgs., c.l., Atlantic coast..ton. No prices
Mexican, white, bgs., c.l., Atlantic coast..lb. .02 - .03
l.c.l. ..lb. .04 - .06
Dibutyl phthalate,[e] 5-gal. cns., works..lb. .2270- .2900
1-gal., cns., works.....gal. .2470- .3100
dms., c.l., works.....lb. .1720- .2250
l.c.l., works.....lb. .1770- .2400
tanks, works.....lb. .1620- .2250
Sebacate, dms., c.l., works..lb. .4900- .5075
l.c.l., works.....lb. .4850- .5125
tanks, works.....lb. .4600- .4975
Tartrate, dms., works, frt. alld. lb. .92 - 1.02
Dibutylamine, dms., c.l., works.. lb. .66 - —
l.c.l., works.....lb. .69 - —
Dichlorodiphenyltrichloroethane (see DDT)
Dichloroethyl ether,[e] purified, dms., c.l., works, frt. equald with Sa. Charleston..lb. .16 - —
l.c.l., same basis.....lb. .17 - —
tanks, same basis.....lb. .15 - —
Diethanolamine,[e] dms., c.l., frt. alld. in E..lb. .23½ - —
l.c.l., same basis.....lb. .24½ - —
tanks, same basis.....lb. .22½ - —
Diethyl carbonate, com'l, dms.lb. .25 - —
refd., 90%, dms.....lb. .80 - —
Oxalate, dms., c.l., dlvd.....lb. .30½ - —
l.c.l., dlvd.....lb. .31 - —
Phthalate,[e] dms., c.l., dlvd..lb. .21½ - —
l.c.l., dlvd.....lb. .22 - —
tanks, dlvd.....lb. .20½ - —
Sulphate, dms., c.l., works...lb. .14 - —
l.c.l., works.....lb. .15 - —
tanks, works.....lb. .13 - —
Diethylamine, dms., c.l., works.lb. .44 - —
l.c.l., works.....lb. .46 - —
tanks, works.....lb. .40 - —
Diethylaminoethanol, dms., l.c.l., works, frt. alld. E. of Miss. R...lb. .75 - —
Diethylanilin, dms.....lb. .40 - —
Diethyleneglycol, dms., c.l., frt. alld.in E..lb. .14 - —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .13 - —
Monobutylether, dms., c.l., works..lb. .22 - —
l.c.l., works.....lb. .23 - —
tanks, works.....lb. .21 - —
Monoethylether, dms., c.l., wks. lb. .15½ - —
l.c.l., works.....lb. .16½ - —
tanks, works.....lb. .14½ - —
Digitalis leaves, dms.....lb. 1.10 - 1.15
Diglycol laurate, dms.....lb. .31 - .32
Oleate, light, bbls., c.l.....lb. .17 - —
Stearate, bbls., c.l.....lb. .22 - —
Dihydroxydichlorodiphenylmethane, dms., works of N.Y. met.lb. .95 - 1.00
smaller containers, same basis lb. 1.05 - 1.40
Di-isobutyl ketone, dms., works, lb. .19 - —
Dillseed, natural cleaned, bgs., lb. No stocks
decorticated, bgs.....lb. .13 - .13½
dewhiskered, bgs.....lb. .09½ - .10½
Dimethyl phthalate, dms., c.l., dlvd..lb. .20 - —
l.c.l., dlvd.....lb. .20½ - —
tanks, dlvd.....lb. .19 - —
Dimethylamine, dms., c.l., dlvd. lb. .85 - —
l.c.l., dlvd.....lb. .90 - —
Dimethylanilin, dms., c.l.....lb. .21 - —
l.c.l. .....lb. .22 - —
Dinitrobenzene, bbls.....lb. .18 - —
Dinitrochlorobenzene, dms.....lb. .14 - —
Dinitronaphthalene, kgs.....lb. .35 - .36
Dinitrophenol, bbls.....lb. .22 - —
Dinitrotoluene, dms.....lb. .18 - —
oily, dms.....lb. .06 - —
Diorthotoluolguanidin, dms., ton lots, dlvd..lb. .44 - —
smaller lots, dlvd.....lb. .46 - .47
Dioxan, dms., c.l., frt. alld..lb. .20 - —
l.c.l., same basis.....lb. .21 - —
tanks, same basis.....lb. .19 - —
Dip oil (see Tar acid oil).
Dipentene,[1] destructive dist., dms., dlvd. E..gal. .55 - .56
tanks, dlvd. E.....gal. .45 - —
steam-dist., dms., dlvd. E..gal. .56 - .58
tanks, dlvd. E.....gal. .52 - .53
Diphenyl,[e] bbls., c.l., works...lb. .15 - —
l.c.l., works.....lb. .16 - .20
Oxide, perfume grade, cns...lb. .48 - .50
dms. .....lb. .43 - .45
Diphenylamine, bbls.....lb. .26 - —
Diphenylguanidin, dms., tons.lb. .35 - —
smaller lots.....lb. .36 - .37
Divi-divi,[1,3] 42% tannin, c.l., U.S. ports, ex dock..ton.69.00 - —
Doggrass root, dom., cut, bls.lb. .30 - .35
imp., NF, cut, bls.....lb. .50 - .55
Dogwood, Jamaica, bark, bls..lb. .10 - .11
Dover's powder, USP, cns....lb. No stocks
Dragon's blood, drops, cs.....lb. .55 - .60
reeds, cs.....lb. No stocks
Dyes, coaltar (certified colors for foods, drugs and cosmetics), 6-lb. lots—
Blue, FD&C, No. 1, cns.....lb.13.00 - —
Green, FD&C, No. 1, cns....lb.13.00 - —
No. 2, cns.....lb.17.00 - —
No. 3, cns.....lb.27.00 - —
Orange, FD&C, No. 1, cns..lb. 2.80 - —
No. 2, cns.....lb. 3.55 - —
Red, FD&C, No. 1, cns.....lb. 5.75 - —
No. 2, cns.....lb. 3.05 - —
No. 3, cns.....lb.17.00 - —
No. 4, cns.....lb. 5.50 - —
No. 32, cns.....lb. 4.05 - —
Yellow, FD&C, No. 1, cns..lb. 8.00 - —
No. 3, cns.....lb. 2.55 - —
No. 4, cns.....lb. 2.55 - —
No. 5, cns.....lb. 3.05 - —
No. 6, cns.....lb. 3.05 - —
Dyes, coaltar (certified colors for drugs and cosmetics)—
Black, D&C, No. 1, cns.....lb. 8.35 - —
Blue, D&C, No. 4, cns.....lb.12.35 - —
Brown, D&C, No. 1, cns....lb.12.35 - —
Green, D&C, No. 5, cns.....lb.12.35 - —
No. 6, cns.....lb.12.35 - —
Orange, D&C, No. 3, cns....lb. 5.35 - —
No. 4, cns.....lb.15.35 - —
No. 10, cns.....lb.15.35 - —
Red, D&C, No. 8, cns.....lb. 2.85 - —
No. 17, cns.....lb. 8.35 - —
No. 18, cns.....lb.15.35 - —
Yellow, D&C, No. 7, cns.....lb. 8.35 - —
No. 8, cns.....lb. 8.35 - —
No. 11, cns.....lb.10.35 - —
No. 13, cns.....lb.15.35 - —
No. 22, cns.....lb. 8.35 - —
No. 13, cns.....lb.13.35 - —
No. 47, cns.....lb.12.35 - —
Dyes, coaltar (certified colors for external use drugs and cosmetics)—
Blue, Ext. D&C, No. 1, cns..lb.12.35 - —
Green, Ext., D&C, No. 1, cns. lb.12.35 - —
Red, Ext. D&C, No. 1 cns...lb.10.35 - —
No. 3, cns.....lb.21.35 - —
No. 8, cns.....lb. 7.85 - —
No. 10, cns.....lb.12.35 - —
No. 13, cns.....lb.12.35 - —
Yellow, Ext. D&C, No. 1, cns. lb. 8.35 - —

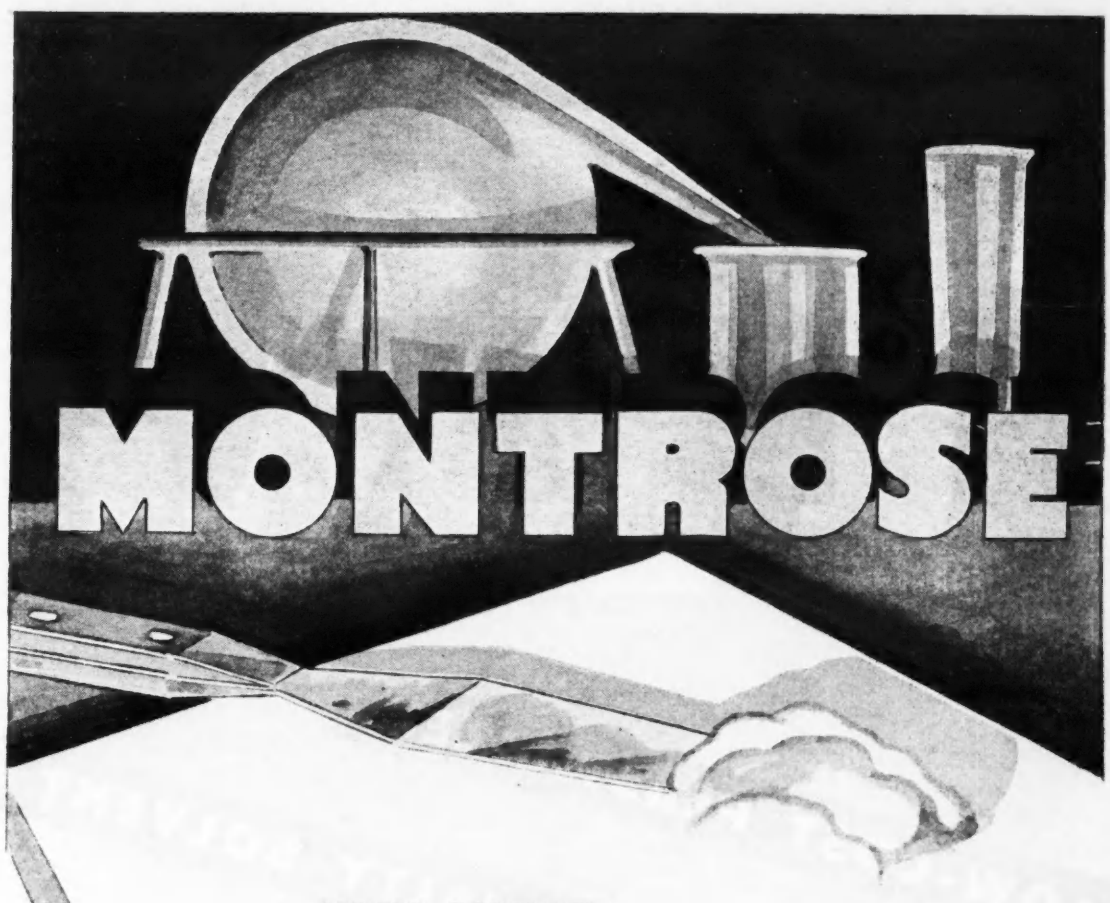
Dyes, coaltar, for general uses (numbers are those of Colour Index scale)—
86 Chrome yellow, 2G...lb. .65 - .70
40 Chrome yellow R.....lb. .50 - 1.00
53 Victoria violet.....lb. .80 - 1.00
165 Lake red C.....lb. 70 - .80
170 Fast red A.....lb. .56 - .60
180 Fast red VR.....lb. 1.50 - 1.60
189 Lake red R. paste....lb. 85 - .90
189 Lake red R. powd....lb. 3.00 - 3.10
202 Chrome blue black U.lb. 35 - .42
204 Chrome black A.....lb. .42 - .45
208 Fast red blue R.....lb. 75 - 2.00
216 Chrome red B.....lb. 1.75 - 2.00
262 Cloth red 2B.....lb. 60 - .80
280 Fast cyanin 5R.....lb. 90 - 1.00
299 Chrome black F.....lb. .85 - .88
304 Paper yellow..... .lb. .53 - .90
307 Fast cyanin black B.lb. .80 - .85
326 Direct fast scarlet...lb. 2.00 - 2.25
365 Chyrophenin G.....lb. 68 - .70
382 Direct scarlet B.....lb. 1.15 - 1.20
387 Direct violet B.....lb. 1.00 - 1.30
394 Direct violet N.....lb. .80 - .85
401 Developed black BHN, lb. .45 - .60
406 Direct blue 2B.....lb. .66 - .70
415 Direct orange B.....lb. .60 - .70
419 Direct fast red F.....lb. .70 - .73
420 Direct brown M.....lb. .55 - .57
448 Benzo purpurin 4B...lb. .65 - .68
495 Benzo purpurin 10B..lb. .40 - .50
lb. .35 - .50
502 Direct azerin G.....lb. 75 - .80
512 Direct blue RD.....lb. .80 - 1.00
518 Direct pure blue 6B..lb. 1.20 - 1.30
520 Direct pure blue.....lb. .50 - 1.00
529 Direct fast black FF.lb. .55 - 1.00
581 Direct black EW.....lb. .50 - .54
582 Direct black RX.....lb. .35 - .45
592 Direct green B.....lb. .50 - .55
594 Direct green G.....lb. .50 - .55
596 Direct brown 3GO...lb. .85 - 1.00
620 Direct yellow R.....lb. 1.25 - 1.50

Dyes, coaltar, for general uses (numbers are those of Colour Index scale)—
688 Acid violet.....lb. 1.00 - 3.00
812 Primulin .....lb. .70 - .73
814 Direct fast yellow....lb. 2.00 - 2.25
845 Nigrosin (water soluble).
1177 Indigo, 20% paste....lb. .15 - .18
Benzo fast black L..lb. .90 - 1.00
Sulphur black.....lb. .20 - .25
Sulphur blue.....lb. .45 - 1.00
Sulphur brown.....lb. .25 - .50
Sulphur maroon.....lb. .40 - —
Sulphur tan.....lb. .30 - .50
Sulphur olive.....lb. .25 - .34
Sulphur yellow.....lb. .30 - .50
Zambesi black.....lb. .75 - .80

Dyes, coaltar, for stains, oil-soluble (prices in barrels of 250 lbs. each; 25 lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).
Black—
865 Nigrosin derivatives....lb. .36 - .44
Blue—
7075 Alizarin astral base...lb.15.00 - —
1078 Alizarin cyanin, green base..lb. 6.00 - —
Brown—
Brown .....lb. 1.15 - —
Green—
1078 Alizarin cyanin green.lb. 5.00 - —
Green .....lb. .75 - —
Orange—
24 Sudan I.....lb. .75 - —
Red shade.....lb. .75 - —
Red—
75 Sudan II.....lb. 1.05 - —
256 Sudan IV.....lb. .85 - —
680 Oil violet.....lb. .50 - —
749 Rhodamine B (oil pink). lb. 2.50 - —
1080 Anthraquinone, violet base..lb. 6.00 - —

Dyes, coaltar, for stains, oil-soluble (prices in barrels of 250 lbs. each; 25 lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).
Yellow—
15 Amidoazobensene yellow..lb. .90 - —
17 Amidoazotoluene yellow, lb. .75 - —
61 Yellow OB.....lb. 1.40 - 2.00

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25 lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).
Black—
246 Naphthol blue black B.. lb. .50 - —
729 Victoria blue B.....lb. 1.85 - —
861 Indulin .....lb. .87 - —
873 Methylene gray.....lb. 1.50 - —
909 New blue F.....lb. 1.20 - —
922 Methylene blue.....lb. 1.00 - —
1064 Alizarin saphirol B...lb. 1.90 - —
1180 Indigotin IA.....lb. .85 - —
Blue—
714 Patent blue A.....lb. 1.05 - 1.10
Brown—
231 Bismarck brown G...lb. .47 - .62
234 Resorcin brown Y....lb. .65 - —
235 Resorcin dark brown R, lb. .64 - —
632 Bismarck brown R...lb. .47 - .62
793 Phosphin .....lb. 4.05 - —
Green—
5 Naphthol green B....lb. 1.00 - —
657 Malachite green.....lb. 1.35 - —
662 Brilliant green.....lb. 2.00 - —
666 Guinea green B.....lb. 1.15 - —
737 Wool green S.....lb. .58 - —
924 Methylene green B....lb. 1.55 - —
1078 Alizarin cyanin green..lb. 2.00 - —


BENZYL BENZOATE

DDT (Government Specifications)

ERGOSTEROL (Non-Irradiated)

TRICRESYL PHOSPHATE
(All Grades)

TRIPHENYL PHOSPHATE

p-AMINO HIPPURIC ACID

*Export Inquiries Solicited*

MONTROSE *Chemical Company*
LISTER AVENUE, NEWARK, NEW JERSEY
SELLING AGENTS R. W. GREEFF & CO., INC. 10 ROCKEFELLER PLAZA, NEW YORK, N. Y.
TRIBUNE TOWER, CHICAGO, ILLINOIS

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25 lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Orange—
10 Chrysodin G.....lb. .44 - —
21 Chrysodin R.....lb. .41 - —
27 Orange G.....lb. .50 - —
31 Amidonaphthol red G.lb. .42 - —
37 Amidonaphthol red 6B, lb. .63 - —
151 Orange Y.....lb. .31 - .33
161 Orange R.....lb. .34 - —

Red—
79 Ponceau R.....lb. .48 - —
88 Fast red B.....lb. 1.05 - —
176 Fast red A.....lb. .54 - —
179 Azorubin .....lb. .69 - —
183 Crocein scarlet 3BX..lb. .72 - .75
185 Cochineal red A.....lb. .60 - —
252 Brilliant crocein M..lb. .68 - —
677 Fuchsin .....lb. 2.10 - —
749 Rhodamine B.....lb. 3.50 - —
752 Rhodamine 6B.....lb. 4.50 - —
768 Eosin G.....lb. 1.50 - —
841 Safranin .....lb. 1.45 - —

Violet—
680 Methyl violet B.....lb. .70 - .75
681 Crystal violet B.....lb. 1.75 - —
695 Acid violet 4BN.....lb. .88 -

Yellow—
10 Naphthol yellow S...lb. .88 - —
138 Metanil yellow.....lb. .56 - .58
636 Fast light yellow....lb. 1.25 - —
639 Xylene light yellow..lb. 1.15 - —
640 Tartrazin .....lb. .80 - —
655 Auramine .....lb. 1.27 - —

Dyes, coaltar, for stains, water-soluble (prices E. in barrels of 250 lbs. each; 25 lbs. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Black—
884 Nigrosin .....lb. .36 - .44

Dyes, coaltar, for stains, water-soluble (prices in barrels of 250 lbs. each; 25 lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Blue—
860 Indulin .....lb. .60 - .70

Brown—
331 Bismarck brown.....lb. 1.50 - —

Green—
637 Malachite green base.lb. 2.00 - —

Orange—
20 Chrysoidin G.....lb. .96 - —
21 Chrysoidin R.....lb. .96 - —

Red—
677 Fuchsin, magenta, base. lb. 7.25 - —
749 Rhodamine R.....lb. 4.75 - —

Yellow—
67 Amidoazotoluene yellow. lb. .75 - —
655 Auramine .....lb. 2.00 - —
800 Chinolin yellow SS..lb. 2.00 - —

Violet—
680 Methyl violet base...lb. .85 - —

Dyes, natural (see name of article).

# E

Echinacea root, bls.....lb. .75 - .80
Egg,[1,7] albumen (see Albumen).
Yolk,[1,7] dried, dom., bbls....lb. 1.04 - 1.10
imported .....lb. No stocks
Elder flowers, bright, bls.....lb. .75 - .85
Elecampane root, bls.....lb. .55 - .60
Elm bark, grinding, bls.....lb. .35 - .36
powd., bbls., bxs.....lb. .55 - .56
select, bndls.....lb. .55 - .56
Emetine hydrochloride, bots...oz.44.50 -45.00
Ephedra, bls.....lb. .28 - .30

Ephedrine, natural, USP, anhydrous, bots..oz. 1.15 - 1.65
Hydrochloride, tins.....oz. .93 - 1.45
Sulphate, tins.....oz. .95 - 1.45
Synthetic, USP, anhydrous, bots..100 ozs. .65 - —
hydrous, bots, 100 oz...oz. .65 - —
Ephedrine hydrochloride, tin, 100 ozs..oz. .50 - —
Sulphate, cryst., tins, 100 ozs. oz. .43 - —
Epinephrine, synth., USP, bots. gram. .75 - —
Epsom salt, tech., cryst., bgs., c.l..100 lbs. 1.80 - 1.95
l.c.l. .....100 lbs. 2.15 - 2.40
dried, bgs.....lb. .03½- —
l.c.l., bgs.....lb. .04 - .07
USP, cryst., bgs., c.l..100 lbs. 2.00 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.25 - —
smaller lots....100 lbs. 2.50 - —
bbls., c.l.....100 lbs. 2.10 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.35 - —
smaller lots.....100 lbs. 2.60 - —
Epsom salt, USP, kgs., c.l..... 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.60 - —
smaller lots.....100 lbs. 2.85 - —

Epsom salt prices freight equalized with Balto., Carteret, N. J.; Chicago, Cincinnati, Cleveland Houston, New Orleans, New York.

Ergot, USP, cns.....cs. 1.60 - 1.65
Eserine, bots.....oz. No prices
Sulphate, 1-gram, vials....vial. 2.10 - —
Ether, acetic (see Ethyl acetate).
Amyl (see Amyl ether).
Butyl, l.c.l., dms., dlvd.....lb. .80 - —
Ethyl (see Ether, sulphuric).

Ether, nitrous, conc., bots., 100 lbs..lb. .98 - 1.10
Sulphuric, conc., dms.....lb. .11 - .16
USP anesthesia, hospitals, 1-lb. cns..lb. .60 - .61
Synthetic, dms., c.l., wks...lb. .14½- —
l.c.l., works.....lb. .15½- —
tanks .....lb. .12½- —
Ethyl acetate, 85-90%, dms., c.l., frt. alld..lb. .1050- .1200
l.c.l., frt. alld.....lb. .1100- .1250
tanks, frt. alld.....lb. .0950- .1100
95-98%, dms., c.l., frt. alld.lb. .1075- .1275
l.c.l., frt. alld.....lb. .1125- .1225
tanks, frt. alld.....lb. .0975- .1175
NF, dms.....lb. .14½- .16½
Acetoacetate, dms., c.l., works. lb. .37½- —
l.c.l., frt. alld.....lb. .38 - —
Benzoate, bots.....lb. .50 - .52
Bromide, tech., dms.....lb. .50 - .55
Carbamate, dms., dlvd. E...lb. .58 - —
Chloride, tech. ,dms.....lb. .18 - .20
USP, bbls., cyl.....lb. .20 - .22
Cinnamate, cns.....lb. 3.50 - 3.90
Formate, dms., Agnue, Calif., lb. .28 - .32
Iodide, bots.....lb. 3.50 - 3.60
Lactate, dms., works.....lb. .33½- .39½
Myristate, dms., works.....lb. .55 - —
Oenanthate, dms.....lb. 1.10 - 1.15
Oleate, dms., l.c.l., works...lb. .47 - —
Oxalate, dms., frt. alld.....lb. .32 - —
Silicate, dms., l.c.l., works..lb. .77 - —
Ethylcellulose, pkgs., 5,000 lbs. or more, works..lb. .50 - —
smaller lots, works.....lb. .52 - .60
Ethyldiethanolamine, dms., l.c.l., works..lb. .80 - —
Ethylene dichloride, dms., c.l., works, frt. alld. E. of Rockies, frt. alld..lb. .0342- —
West of Rockies..lb. .0391- —
l.c.l., works, frt. alld. E. of Rockies..lb. .0391- —
West of Rockies..lb. .0941- —
tanks, frt. alld. E. of Rockies, lb. .0743- —
West of Rockies..lb. .0792- —
Trichloride (see Trichloroethane).
Ethyleneglycol, dms., c.l., frt. alld. in E..lb. .10 - —
l.c.l., same basis.....lb. .11 - —
tanks, same basis.....lb. .09 - —
Monobutylether, dms., c.l., wks. lb. .17½- —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16½- —
Monoethylether, dms., c.l., wks. lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Monoethylether acetate, dms., c.l., works..lb. .13½- —
l.c.l., works.....lb. .14½- —
tanks, works.....lb. .12½- —
Monoethylether, dms., c.l., wks. lb. .16½- —
l.c.l., works.....lb. .17½- —
tanks, works.....lb. .15½- —
Ethylethanolamine, d m s., c.l., works..lb. .57 - —
l.c.l., works.....lb. .60 - —
Ethylmonoethanolamine, l.c.l., dms., works..lb. .80 - —
Ethylmorphine, hydrochloride, bots..oz.10.50 -10.75
Ethylvanillin,[1] cns., 5 lbs. or more..lb. 5.25 - —
smaller lots.....lb. 5.30 - 5.40
Eucalyptol, cns., dms.....lb. 2.50 - 2.55
Eucalyptus leaves, bls.....lb. .10 - .18
Eugenol, cns., dms.....lb. 2.65 - 2.75
Euphorbia, bls.....lb. .16 - .17

# F

Feldspar,[1] enamel, 100 mesh, ton.17.00 -20.50
bulk, c.l.....ton.14.00 -17.50
glass, 20 mesh, bgs., works, min. 2 tons..ton.12.75 -16.25
bulk, c.l.....ton. 9.75 -12.25
pottery, bgs., l.c.l., works, min. 2 tons..ton.20.00 -22.00
bulk, c.l., works.....ton.17.00 -19.00
Fennel seed, Argentine, bgs...lb. .27 - .27½
Indian, bgs.....lb. .16½ Nom.
Fenugreek, domestic, bgs.....lb. No stocks
Indian, bgs.....lb. .10 - .10½
Morocco, bgs.....lb. .10½- .11
Ferric sulphate (see Iron sulphate, ferric).
Film scrap, colored, cs., works.lb. .13½- .15
water-white, cs., works.....lb. .14½- .17
Fir balsam, Canada, cns....gal.18.50 -20.00
Oregon, bbls.....gal. 2.50 - 2.60
Fishberries, bgs.....lb. .24 - .25
Fishliver oils (see Oil, fishliver).
Fishmeal,[1,7] grd., 69% protein, bgs., E. works..ton.72.50 - —
65% protein, bgs., E. works, ton.78.50 - —
Fishscrap,[7] dried, 60% protein, bulk, East coast..ton.66.50 - —
Flake white, bbls.....lb. .09 - —
kegs .....lb. .11 - —
Flaxseed, dom., French-type, bgs. lb. .62 - .64
French, black, bgs.....lb. No stocks
Indian, blonde, bgs.....lb. .18½- .22
Fluorspar,[1] No. 1, ground, 96-98% $CaF_2$, bulk, c.l., mines, net ton.37.00 - —
washed, gravel, 70% or more $CaF_2$, c.l., bulk, mines..ton.33.00 - —
65%, c.l., bulk, mines....ton.32.00 - —
60%, c.l., bulk, mines....ton.31.00 - —
less than 60%, c.l., bulk, mines..ton.30.00 - —
Formaldehyde,[1] bbls., c.l., works, lb. .0520- —
l.c.l., works.....lb. .0570- —
dms., extra, c.l., works.....lb. .0460- —
l.c.l., works.....lb. .0510- —
tanks, works.....lb. .0320- —
tanktrucks, dlvd. N.Y.C....lb. .0345- —
Fringetree bark, bls.....lb. .55 - .60
Fuller's earth,[1] dom., powd., bgs., c.l., Fla., Ga. mines.. ton. 8.50 -15.00
Tex. mines.....ton.12.50 - —
spent, bulk, Bayonne...ton. 3.00 - —
Chicago .....ton. 4.00 - —
imp. bgs. c.l.....ton.30.00 -40.00
Furfural, ref., dms., c.l., works, lb. .15½- —
cns., dms., l.c.l., works....lb. .18½- .25½
tech., dms., c.l., works.....lb. .13 - —
l.c.l., cns., dms.....lb. .15½- .20½
tanks, works.....lb. .09½- —
Fusel oil, crude, dms., works.gal. .75 - —
refd., dms., dlvd.....lb. .18½- .19½
Fustic extract, cryst., No. 1, bbls., l.c.l..lb. .35 - —
No. 1A, bbls., l.c.l.....lb. .34 - —
No. 2, bbls., l.c.l.....lb. .33 - —
No. 3, bbls., l.c.l.....lb. .31 - —
liquid, No. 0, bbls., l.c.l....lb. .10 - —
No. 1, bbls., l.c.l.....lb. .17½- —
No. 2, bbls., l.c.l.....lb. .16½- —
No. 3, bbls., l.c.l.....lb. .14 - —
solid, No. 1, bxs., l.c.l.....lb. .20½- —

**TEC TRIACETIN** is a Glyceryl Triacetate of very high purity. Its low acid number and excellent color make it highly suitable for use as a low-cost plasticizer or specialty solvent. It has found uses in salves, lotions, creams, lacquers, perfumes, plastics, paints, and many other products.

**SPECIFICATIONS**

| | |
|---|---|
| Color | Water-White |
| Boiling Point, °C | 258-259 |
| Specific Gravity 20°C/20°C | 1.591-1.593 |
| Refractive Index | 1.4288-1.4296 |
| Acid Number | 0.055 Max. |
| Saponification Number | 765.4-771.6 |

**OTHER PROPERTIES**

| | |
|---|---|
| Viscosity | 15.1 cps. at 25°C |
| Water Solubility | 61.2 gms. per liter at 27°C |

**TENNESSEE EASTMAN CORPORATION**

(Subsidiary of Eastman Kodak Co.) Kingsport, Tennessee

# *Absolute* PUBLIC AUCTION SALE

## A TREMENDOUS OPPORTUNITY FOR THESE INDUSTRIES:

- CHEMICAL
- CONFECTIONERY
- ADHESIVES
- COSMETICS
- DISTILLERS
- EXPLOSIVES
- BEVERAGES
- OILS & FATS
- CANNERS
- PLASTICS
- PAINTS
- FOOD
- DRUGS
- SOAP
- WAX
- INK
- ETC

**TERMS OF SALE**

This Sale will be conducted in conformity with the regulations of all Government Agencies. All of the above will be sold to the highest bidder or bidders for cash in accordance with our regular terms and conditions, copies of which will appear on the walls of the individual plants. A deposit of 25% on each purchase will be required either in cash or certified check. EVERYTHING WILL BE SOLD ON AN "AS IS" BASIS UNLESS OTHERWISE SPECIFICALLY ANNOUNCED BY THE AUCTIONEER AT THE TIME OF SALE.

SALE UNDER MANAGEMENT OF

## INDUSTRIAL PLANTS CORPORATION

*PROFESSIONAL AUCTIONEERS — APPRAISERS — LIQUIDATORS*

90 WEST BROADWAY, NEW YORK 7, N. Y. • 316 S. LA SALLE ST., CHICAGO 4, ILLINOIS

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# ABSOLUTE PUBLIC AUCTION SALE

*One of America's Largest Stocks*

## CHEMICAL, FOOD, and PROCESS EQUIPMENT

On the premises of **FIRST MACHINERY CORPORATION** (Forced to Move)

819-837 EAST 9th STREET, AT EAST RIVER DRIVE, N. Y. C.

*Sale Dates:*

**WED. & THURS.**

**FEB. 27 & 28, 1946**

Starting Promptly at 10:30 Each Day

INSPECTION: WED. FEB. 20 to Sale Date

### CHEMICAL EQUIPMENT

STILLS, EVAPORATORS, VACUUM PANS, AND PRESSURE VESSELS in steel, copper, aluminum, glass lined, in varying capacities, jackets, coils.

KETTLES AND TANKS, jacketed and unjacketed, some with coils, some with agitators, in stainless steel, copper, iron, steel, aluminum, glass lined, various capacities.

EXTRACTORS AND CENTRIFUGES by Sharples, DeLaval, Tolhurst, American Machine and Tool, Troy, Viersen, with stainless, iron, bronze, monel, copper or rubber lined contact parts, different models, varying capacities.

CONDENSERS AND HEAT EXCHANGERS by Westinghouse, Alberger, Devine, Deckenbach and others. Several extremely large units up to 1500 sq. ft.

ROTARY VACUUM DRYERS, VACUUM DRUM DRYERS, CHAMBER DRYERS by Buffalo, Devine and others.

EVAPORATORS, DISTILLATION EQUIPMENT, COLUMNS, bubble cap or perforated plate type.

DIGESTERS AND AUTOCLAVES.

HEAVY DUTY MIXERS, both jacketed and unjacketed, with single or double arm, in all capacities.

BRAND NEW PORTABLE AGITATORS, fractional horse power motors of high speed and explosion proof head, having steel or stainless steel agitator shaft and propellers.

COMPLETE MACHINE SHOP AND METAL WORKING EQUIPMENT including lathes, drill presses, shapers, milling machines, brake, roller, etc.

### PROCESSING EQUIPMENT

FILTERS AND FILTER PRESSES by Shriver, Sperry, Kiefer, Kelly, Oliver United, Alsop, Ertel, Sietz, also several filter press Skeletons.

MILLS, GRINDERS AND HAMMER MILLS by Mikro, FMC, Williams, Raymond, Bauer, Mead, Schutz-O'Neill, Munson, J. H. Day, Sprout Waldron, Straub, American Attrition Mills.

CUTTERS AND CHOPPERS, PUMPS, BLOWERS, VISCOLIZERS, COLLOID MILLS, HOMOGENIZERS including a tremendous stock of Vacuum Pumps, Rotary Pumps, Centrifugal Pumps, Gear type Pumps, Steam Pumps in such metals as stainless, iron, bronze, acid resistant contact parts. Such manufacturers represented as Union Steam Pump Co., Manton-Gaulin, Eppenbach, Charlotte, Chemi-Colloid, Gould, Oberdorfer, Worthington, Knowles, Davidson, Beach-Russ, Kinney, Devine, Buffalo, Quimby and other standard makes.

COMPRESSORS AND ICE MACHINERY by Allis Chalmers, Ingersoll-Rand, National Brake, Gardner, Quincy, Blaisdell, Vilter, Brunswick Kroeschell and others.

SIFTERS, SCREENS AND SEPARATORS by Orville Simpson, Rotex, J. H. Day, Robinson, Sprout Waldron, Tyler Hummer, Link Belt and others.

HYDRAULIC PRESSES, MAGNETIC SEPARATORS, INDUSTRIAL VACUUM CLEANERS, TANKS of various metals and in all wanted sizes, steam jacketed Kettles, new and used, in stainless steel, copper, iron, steel, glass lined, some with agitators, up to 4500 gallons.

### PACKAGING EQUIPMENT

FILLERS for liquids, semi-liquids, powders, dry materials, pastes and etc. by Pneumatic Scale, Stokes, Stokes and Smith, Triangle, Colton, New FMC Rotary and Straight Line Syphon Fillers, Straight Line Vacuum Fillers, Gravity Fillers, Auger Type Fillers, including units for every job of packaging.

CAPPERS, CROWNERS AND CLOSERS by Elgin, Capem, Pneumatic Scale, Adriance, others.

LABELLING MACHINES by World, O&J, Liquid Carbonic, Ermold, New Jersey Pony Labelrites, Standard Knapp, Burt, for many types of packages, jar, glass, can and etc., both semi-automatic and fully automatic.

CARTON GLUERS AND SEALERS by Standard Knapp.

WRAPPING MACHINES by Miller, Johnson, Package Machinery Co. and etc.

POWDER MIXERS, GRANULATORS, GRINDERS, POT MILLS, SINGLE PUNCH AND ROTARY TABLET MACHINES. Extra punches and dies also available.

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FACTORY HANDLING EQUIPMENT such as Conveyors, Lift Trucks, Elevators, Skids, Bucket Elevators, Hoists, Hoppers, Instruments, Gauges, Coils, Valves, Testers, Thermometers, Label Perforators, Pulleys, Sprockets, Chains, Drives, Belting, Motors, Electrical Equipment, Drum Tilters and thousands of parts for standard machines used in the industries indicated.

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STEAM JACKETED KETTLES in stainless steel, copper and steel, some with agitators; brand new Portable Agitators, some with stainless steel as well as steel shafts and propellers.

DOUGH MIXERS AND CAKE MIXERS of all types.

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SIFTERS, by Orville Simpson, Rotex, J. H. Day, Robinson, Sprout Waldron, etc.

RETORTS and PRESSURE COOKERS.

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# G

G salt, bbls.....lb. .45 - —
Galangal root, bls.....lb. .24 - .25
Gambier, cube, Singapore, cs..lb. No stocks
Extract, bbls.....lb. No stocks
Gammapicoline, 95%, dms., c.l., works..lb. 1.35 - —
Gasoline,[1] at refinery, ex tax, Arkansas, 73-75 octane, tanks, gal. .06 - —
Bayonne, 73-75 oct., tank..gal. .077 - —
Gulf Coast, 73-75 oct., tanks, gal. .05¾- —
Group 3, 73-75 oct., tanks, gal. .05½- .06
Pennsylvania, western, US motor, 74 octane, leaded, tanks..gal. .07 - .07¾
natural, 26/70, Group 3, tanks, gal. .03 - .03½
Gelatin, silver label, ctns., divd., lb. .90 - .97
export, cs.....lb. 1.00 - —
Silver label prices 5c. higher for deliveries in Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash. and Wyo.
Gelsemium root, bls.....lb. No stocks
Gentian root, bls.....lb. .36 - .38
grd., bbls., bxs.....lb. .38 - .40
powd., bbls., bxs.....lb. .39 - .41
Geraniol, 92-96%, cns., dms....lb. No prices
Geranyl acetate, cns.....lb. 3.50 - 3.60
Ginger,[1] African, No. 1, bls...lb. .15 - .15½
Calicut, Romeo-type, bgs....lb. .16½- .17
Cochin, bleached, bgs.....lb. .17 - .17¼
unbleached, bgs.....lb. .15¾- .16¼
Jamaica, No. 1, bgs.....lb. .23 - .23½
No. 2, bgs.....lb. .21½- .22
No. 3, bgs.....lb. .17½- .18
Rhattoon, bgs.....lb. .17 - .17½
Glauber's salt, anhyd. (see Soda sulphate).
cryst., bgs., bbls., works....100 lbs. 1.06 - 1.45
Glue, bone, calcium type, 24 millipoise, 36 jellygrams, bgs., c.l., East of Midwest, lb. .16 - .22
50/58, bgs., c.l., same basis..lb. .15½- .22½
58/82, bgs., c.l., same basis, lb. .17 - .24
82/105, bgs., c.l., same basis, lb. .18½- 25½
Bone glue l.c.l. prices 1c. higher than c.l.
Hide,[1] 100-121 (jelly test in grams), bgs., c.l., divd....lb. .14 - .21½
122-149, bgs., c.l., divd.....lb. .15 - .23½
150-177, bgs., c.l., divd.....lb. .16 - .23½
178-206, bgs., c.l., divd.....lb. .17 - .24½
207-236, bgs., c.l., divd.....lb. .18 - .25½
237-266, bgs., c.l., divd.....lb. .19 - .26½
267-298, bgs., c.l., divd.....lb. .20 - .27½
299-330, bgs., c.l., divd.....lb. .21 - .28½
331-362, bgs., c.l., divd.....lb. .22 - .29½
363-394, bgs., c.l., divd.....lb. .23 - .30½
395-427, bgs., c.l., divd.....lb. .24 - .31½
428-460, bgs., c.l., divd.....lb. .25 - .32½
461-494, bgs., c.l., divd.....lb. .26 - .33½
495-529, bgs., c.l., divd.....lb. .27 - .34½
Hide glue l.c.l. prices 1c. higher than c.l.; bbls., ½c. over bgs.
Glycerin, crude, saponification, 88%, to refiners, tanks...lb. .12¾- —
soaplye, 80%, tanks.....lb. .11½- —
dynamite, dms., c.l.....lb. .17½- 18¼
l.c.l. .....lb. .18 - .18¾
tanks .....lb. .17¼- .18
high gravity, dms., c.l.....lb. .17½- .18¼
l.c.l. .....lb. .18 - .18¾
tanks .....lb. .17¼- .18
refined, B.P. 98%, dms., c.l..lb. .18¾- —
l.c.l. .....lb. .19¼- —
tanks .....lb. .18½- —
USP, 96%, dms., c.l.....lb. .18¼- —
l.c.l. .....lb. .18¾- —
tanks .....lb. .18 - —
Yellow, distilled, dms., c.l..lb. .17½- —
tanks .....lb. .17¾- —
Glycine, USP, bbls., tins.....lb. 1.25 - 1.30
Glycol boriborate, dms.....lb. .22 - —
Stearate, dms.....lb. .26 - —
Gold chloride, acid-brown, bots, oz. 20.75 -21.00
acid-yellow, bots.....oz. 18.75 -19.00
Gold-soda chloride, photo., bots.. oz. 13.00 - —
USP IX, bots.....oz. 14.50 -14.75
Goldenseal root, bls.....lb. 8.50 - 8.75
powd., bxs.....lb. 9.00 - 9.25
Gold of pleasure seed, bgs....lb. No stocks
Grains of paradise, bgs.....lb. .30 - .37
Graphite,[1] dom., crystalline, 80% through 50 mesh, graphitic carbon content 65-70%, bgs., whse..lb. .04½- —
70-75%, bgs., same basis, lb. .05 - —
75-80%, bgs., same basis, lb. .05½- —
80-85%, bgs., same basis, lb. .06 - —
85-90%, bgs., same basis, lb. .07 - —
90% and up, same basis, lb. .08 - —
Grease, house,[1,7] loose.....lb. .06¼- —
White, choice, loose.....lb. .08¾- —
Wool (see Adeps lanae and Degras).
Green, brilliant,[1] chromavin toner, molybdic, kgs., works..lb. 2.25 - —
tungstic, kgs., works.....lb. 2.75 - —
Chrome,[1] CP, dark, light, medium, blue content up to 5%, bbls., divd. N. of Tenn. and N.C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .23 - —
13% bbls., same basis...lb. .25 - —
20%, bbls., same basis...lb. .25½- —
21-25%, bbls., same basis.lb. .26 - —
26-30%, bbls., same basis.lb. .26½- —
31-35%, bbls., same basis.lb. .27½- —
36-40%, bbls., same basis.lb. .29 - —
41-45%, bbls., same basis.lb. .30½- —
45-50%, bbls., same basis.lb. .33 - —
reduced color, 5%, bbls., same basis..lb. .06¾- —
9-10%, bbls., same basis.lb. .07½- —
11-13%, bbls., same basis.lb. .08 - —
14-16%, bbls., same basis.lb. .08½- —
17-19%, bbls., same basis.lb. .08½- —
20-21%, bbls., same basis.lb. .08¾- —
22-23%, bbls., same basis.lb. .09 - —
24-25%, bbls., same basis.lb. .09½- —
26-27%, bbls., same basis.lb. .09½- —
28-29%, bbls., same basis.lb. .10 - —
30-31%, bbls., same basis.lb. .10½- —
32-33%, bbls., same basis.lb. .12 - —
34-35%, bbls., same basis.lb. .13 - —
36-40%, bbls., same basis.lb. .14 - —
41-45%, bbls., same basis.lb. .17 - —
46-50%, bbls., same basis.lb. .17½- —
51-55%, bbls., same basis.lb. .18 - —
56-60%, bbls., same basis.lb. .18½ —
61-65%, bbls., same basis.lb. [illegible] —
70%, bbls., [illegible]

Green, chrome, reduced color, 71-75%, bbls., same basis.lb. .21 - —
Chrome green prices are ½c. higher divd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1½c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher divd. Pac. Coast; for Denver, Pueblo, Salt Lake City and Wichita, prices are equalized with Chicago.
Green, chrome oxide, pure, dms., wks..lb. .24 - —
Malachite, thiodavin toner, molybdic, bbls., works..lb. 3.00 - —
tungstic, bbls., works....lb. 3.50 - —
Phthalocyanin,[5] tetrahydroxide (hydrated chromium oxide, bbls., works....lb. .35 - —
toner, bbls., works.....lb. 4.00 - 5.00
Paris (see P).
Tungstated, brilliant, kgs...lb. 3.00 - —
emerald, kgs.....lb. 2.60 - —
Verdigris (see V).
Green dyes (see Dyes, coaltar).
Grindelia robusta, bls.....lb. .21 - .23
Guaiac, resin, cs.....lb. .36 - .38
Wood, bls.....lb. .05 - .08
Guaiacol, liquid, N.F., bots., cbys..lb. 1.60 - 1.84
Carbonate, dms.....lb. 2.40 - 2.45
Guanidin carbonate,[1] bbls., c.l., works..lb. .57 - —
l.c.l., works.....lb. .58 - .73½
Guarana, powd., cs.....lb. 2.00 - 2.10
Gum accroides (see Gum, yacca).
Aloe (see A).
Ammoniac, tears, cs.....lb. .90 - .95
Arabic, amber, sorts, bgs...lb. .12 - .13½
white, sorts, 1, bgs.....lb. .28 - .30
Asafetida (see A).
Asphaltum (see A).
Gum, benzoin, artificial cns...lb. 1.75 - 2.55
Siam, cns.....lb. 3.00 - 3.50
Sumatra, cs.....lb. .82 - 1.00
Camphor (see C).
Copal, Congo (former dollar-and-cent ceilings revoked Feb. 2. New ceiling prices are to be based on prices to be paid by importers in the Belgian Congo plus landed costs, as determined by a formula under import regulation).
East India,[1] Batu, bold, scraped, c.l., same basis.lb. .10½- —
unscraped, same basis.lb. .09 - —
chips, same basis...lb. .12 - —
dust, same basis...lb. .06½- —
nubs and chips, same basis..lb. .05¾- —
pale, Hiro-Macassar,[1] bold, bgs., c.l., same basis..lb. .17¾- —
chips, same basis....lb. .11½- —
dust, same oasis...lb. .05½- —
nubs, same basis...lb. .13¾- —
Singapore, Rasak, bold, bgs., same basis..lb. .23¾- —
chips, same basis...lb. .11¾- —
dust, same basis...lb. .05½- —
nubs, same basis...lb. .16¾- —
Macassar,[1] dust, bgs., c.l., same basis..lb. .07¾- —
MA, same basis.....lb. .09¾- —
MB, same basis.....lb. .09¼- —
WS, bgs., same basis....lb. .11¾- —
Manila, Boesa,[1] hard, bold, amber, light, bekts., c.l., same basis..lb. .13½- —
dark, light, same basis..lb. .14½- —
white, same basis.....lb. .15½- —
Loba,[1] A, bgs., c.l., same basis..lb. .14 - —
B, same basis.....lb. .13¾- —
C, same basis.....lb. .13¾- —
CBB, same basis.....lb. .12 - —
Gum, copal, Manila, Loba, ONE, same basis.....lb. .10 - —
D, same basis.....lb. .12¾- —
DBB, same basis.....lb. .11 - —
DK, same basis.....lb. .09½- —
DU, same basis.....lb. .08¾- —
dust, same basis.....lb. .07¾- —
WB, same basis.....lb. .09¼- —
WS, same basis.....lb. .11¾- —
white split chips, bgs., c.l., same basis..lb. .18¼- —
dust, same basis.....lb. .07¾- —
whse., entry point, c.l...lb. .06¾- —
Manila-Singapore,[1] white split chips, bgs., c.l., same basis, lb. .16¼- —
extra bold, sorts, bgs., c.l., same basis..lb. .12¾- —
pale chips, bold, same basis, lb. .13 - —
nubs, WCB, same basis..lb. .13¾- —
seeds, dust same basis....lb. .06¾- —
SG, same basis.....lb. .10½- —
small chips, same basis..lb. .11¾- —
c.l., same basis..lb. .23¾- —
Pontianak, bld., scraped, bgs., mixed, same basis..lb. .17¾- —
chips, small, same basis..lb. .19¾- —
cuttings of split, same basis, lb. .19½- —
nubs, same basis.....lb. .18 - —
Gum copal, l.c.l., prices ½c. to ½c. higher.
Dammar,[1] Batavia, A, cns., c.l., same basis..lb. 85¾- —
A/C, same basis.....lb. .81¾- —
A/D, same basis.....lb. .80¾- —
A/E, same basis.....lb. .25¾- —
B, same basis.....lb. .84¾- —
C, same basis.....lb. .85¾- —
D, same basis.....lb. .85¾- —
E, same basis.....lb. .19¾- —
F, same basis.....lb. .13¾- —
dust, same basis.....lb. .13¾- —


## ARMOUR'S ANIMAL GLUE

## IS SURE EASY TO PREPARE

*that's right, Mister...*

You can use Armour's Animal Glue *without complicated chemical additions!* Merely mix with water, melt and use.

*and that's not all...*

*We suggest that you investigate the possibilities of Armour's Animal Glue for:*

Calcimine — Matches
Barrel Sizing — Abrasives
Container Liners
Printers' Rollers
Textile Sizing — Rubber
Use in Dye Vats
Gummed Tape
Paper Boxes — Furniture
Clarification Processes

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**Important:**

At present, demand for many grades of Armour's Glue exceeds supply. However, we'll gladly discuss your problems to help you make *more efficient use* of the glue that is available.

**Armour's Animal Glue has great tensile strength . . .** Tensile strength up to 5,000 pounds per sq. in. gives the really tough bonding agent that means better performance for your products . . . *it's glued for good with Armour's!*

**It's absolutely uniform . . .** The careful, scientific controls in making Armour's Animal Glue *guarantee* complete uniformity . . . help assure efficient, uninterrupted production in your plant.

**Armour's Animal Glue will not deteriorate . . .** Unlike some adhesives, it loses no performance qualities in storage. Armour's Animal Glue has a long life in solution.

**It has no impurities . . .** Armour's Animal Glue is commercially clean, chemically inactive and one hundred per cent glue.

***Remember This About Armour's Animal Glue...***

*Easy to prepare* — *Pure and clean*
*Easy to use* — *Chemically inactive*
*High initial tack* — *Does not deteriorate*
*Complete uniformity* — *Great tensile strength*

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OPD—2-18-1946 20

# INSIDE NEWS

FEBRUARY · PREPARED BY NATIONAL CAN CORPORATION, NEW YORK, N. Y. 1946

## Mildewproofing Agent Finds Use As "Athlete's Foot" Remedy

After being extensively used by the armed forces successfully as a mildewproofing agent for fabrics and other materials, a chemical known as a compound G-4, has been found to be effective against fungi which cause "athlete's foot".

Athlete's foot is the most frequently observed fungus infestation attacking the human being. It has been shown that practically the entire adult population carries the spores of the fungi on its feet. People who are susceptible readily develop the manifestation of the fungus infection.

Although the conditions are usually mild in character, they may be severe enough to incapacitate the patients. Re-infection, especially from shoes and stockings harboring the fungi, is a great problem, and prophylactic measures are as important as the therapy.

The chemical compound, bis-(5-chloro-2-hydroxyphenyl) methane, produced by a chemical concern in New Jersey, is strongly fungistatic and fungicidal against pathogenic fungi, especially those of the Trichophyton group which cause dermatophytosis of the foot, commonly called "athlete's foot".

The fact that compound G-4 is practically non-toxic, non-irritating, and highly effective against the disease-producing fungi, makes it particularly suitable.

Compound G-4 can be incorporated into many different types of bases. One that is particularly effective is a talcum powder, containing two per cent of the compound. Applied regularly as a dusting powder to the feet, as well as in the shoes and stockings, it reduces the incidence of this widespread disease.

An athlete's foot powder, containing compound G-4 as the active ingredient, can be packaged in a tin container to permit a liberal sprinkling without waste.

Products of this type are best packaged in tin cans for better protection against wetness, dampness, air and to prevent breaking.

With tin cans, there is no worry about tearing, chipping or shattering should the container fall from the medicine chest. They can not become soggy. Besides, cans are neat-looking, light, compact, and lend themselves to attractive lithograph labeling.

Cans may be had in slip cover, screw, or perforated top designs, and the body of the container may be square, oblong, round or oval in shape, according to package design.

For help in packaging, National Can Corporation's staff of experts will be glad to go over your problems with you. Write to your nearest National Can office or National Can Corporation, 110 East 42nd Street, New York 17, N. Y. 1194

### Shortening or Drying Oils

Two ways to make linseed oil more useful have been disclosed lately. Polymerization under appropriate conditions will convert the linolenic acid into a high polymer form that is insoluble in acetone. Since the portions which have a suitable composition for use in shortening are soluble in this reagent, separation is simple. Sixty to sixty-five per cent of the polymerized oil will be found in the shortening fraction. When hydrogenated, there is no tendency to revert.

The linolenic high polymer fraction provides an excellent drying oil.

Soybean oil, as well as linseed, can be improved by neutral catalytic conjugation or isomerization, by a method reported from one of the government laboratories. Quicker setting and drying in paints is obtained. The conjugated oil films are more resistant to hot and cold water and to alkali. 1195

### Easier Grinding

Spice seeds, having a high oil content, are very difficult to grind to a fine powder. Yet they must be ground to be used.

Accordingly, there is a very practical interest in a process that avoids the difficulty without altering the aromatic oils or losing the volatile constituents. An ordinary oil expeller, such as is used for cottonseed oil, can be used to take the oil out of the seeds. The cake, with a small amount of residual oil, is readily ground. The expelled oil can then be returned to the powder by spraying while stirring.

When there are undesirable materials in the oil, such as those that cause rapid development of an off flavor, a chemical treatment may be carried out to remove them before returning the oil to the carrier. 1196

### Electronic Vegetable Blanching

Electronics have found a place in food processing. Food technologists have developed a method for blanching vegetables, which is superior in vitamin content over the customary steam or boiling water method. The equipment, employing high frequency electricity, has already wide commercial use from producing artificial fevers in the human body quickly to reducing glue-setting time in plywood manufacture.

Enzymes, which cause the off-flavors and vitamin losses of processed vegetables, are inactivated by heat. Present methods require vegetables to be heated longer than is necessary, in order that the center temperature reaches the point where the enzymes are inactivated. Electronic blanching reduces the time element with a correspondingly better processed product. 1197

### New Insect-Controlling Methods

New methods are being revealed for controlling insects. One of the latest is spreading the insecticide on the soil. This in turn is absorbed by the plant. As the insects feed on the plant, containing the poisonous sap residue, they are killed. At present this method has been successful on commercial flowers only, but this new method should bring an answer to some of our most difficult pest-control problems. 1198

### Gas Packing Boon to Food Processing

Many products such as coffee, candy, nuts, dried and dehydrated products lose flavor and freshness in the presence of oxygen. The amount of oxidation depends on the amount of oxygen present and takes place more rapidly in the presence of light. The light-tight vacuum can is the now widely-known solution to this difficulty.

A new process known as "gas-packing"—in which air is drawn from the can and replaced with an inert gas, harmless, odorless and tasteless, is now being used for many products to supplement vacuum packing. With gas packing it is possible to achieve a still lower percentage of oxygen. Also, it can be used for large-size cans where vacuum packing would be more difficult. 1199

Gum, dammar, Singapore,[1] No. 1, c.a., c.l.. lb. .30½- —
2, bgs., same basis..... lb. .25 - —
3, bgs., same basis..... lb. .12½- —
chips, cs., same basis.... lb. .23½- —
dust, bgs., same basis.... lb. .13 - —
seeds, cs., same basis.... lb. .17¼- —
Gum, dammar, l.c.l., prices ¼c. to ½c. higher.
Elemi,[1] cns., e.l., ex dock or whse. entry port.. lb. .09¼- .09¾
Ester,[2] gum-rosin, type, dma., c.l., dlvd., Ill., Ind., Ky., Mich., Mid-Atl. States, N. England States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va.. lb. .1360- —
l.c.l., dlvd., Ill., etc..... lb. .1325- —
other points, same basis. lb. .1400- —
wood-rosin type (formerly designated as "ordinary"), dma., c.l., dlvd. Ill., Ind., etc.. lb. .1050- .1075
Euphorbium, cs..... lb. 1.50 Nom.
Galbanum, cs..... lb. 1.00 - 1.05
Gambege, pipes, cs..... lb. No stocks
powd., bbls..... lb. No stocks
Ghatti, bgs..... lb. No stocks
Guaiac (see Guaiac resin).
Karaya, bbls., bxs., dms.... lb. .18 - .46
Kauri,[2] brown, chips, extra, bgs., c.l., ex dock, whse.. lb. .18 - —
dust, same basis..... lb. .12½- —
nubs, same basis..... lb. .24 - —
No. 1, extra, same basis... lb. .34 - —
superior, same basis..... lb. .31 - —
No. 2, extra, same basis... lb. .30 - —
superior, same basis..... lb. .27½- —
No. 3, same basis..... lb. .22 - —
x, same basis..... lb. .36 - —
Gum, kauri, No. 3, 2x, same basis.. lb. .49 - —
3x, same basis. ..... lb. .77 - —
bush, assorted, same basis. lb. .35 - —
bold, same basis..... lb. .40 - —
bright, same basis..... lb. .18 - —
chips, same basis..... lb. .32 - —
dark, same basis..... lb. .18 - —
white, chips, pale, same basis. lb. .20¾- —
dust, pale, same basis... lb. .20¾- —
extra, same basis.. lb. .25½- —
No. 1, same basis..... lb. .45 - —
No. 2, same basis..... lb. .31 - —
No. 3, same basis..... lb. .30 - —
Superior, No. 1, same basis.. lb. .41 - —
No. 2, same basis..... lb. .31 - —
No. 3, same basis..... lb. .22 - —
3x, same basis..... lb. .65¾- —
4x, same basis..... lb. .91 - —
5x, same basis..... lb. 1.50 - —
Gum kauri, l.c.l., prices are ¼c. to ½c. higher.
Locust bean, powd., bbls.... lb. .50 - 60
Mastic, cs..... lb. 5.00 Nom.
Myrrh, cs..... lb. .48 - .50
Olibanum, siftings, cs..... lb. .12 - .18
tears, cs..... lb. .21 - .35
Opium (see O).
Red (see Gum, yacca).
Rosin (see R).
Sandarac,[1] casks..... lb. .97½- .99¼
Scammony, cs..... lb. 1.30 - 1.35
Talha, bgs..... lb. .10 - .11
Tragacanth, No. 1, cs..... lb. 3.80 - 2.90
No. 2, cs..... lb. 2.75 - 3.20
No. 3, cs..... lb. 2.15 - 2.60
Yacca,[1] red gum, coarse, bgs., ex dock, whse.. lb. .06 - —
powdered ..... lb. .07¼- —
Gypsum, Keene's cement, paper bgs., c.l., Acme, Tex., frt. equald.. ton.22.05 - —
Harlem River, N. Y., frt. equald.. ton.20.05 - —
Medicine Lodge, Kan., frt. equald.. ton.17.00 - —
New Brighton, N.Y., frt. equald.. ton.20.05 - —
Southard, Okla., frt. equald.. ton.17.00 - —
Sweetwater, Tex., frt. equald.. ton.21.45 - —
Plaster of Paris, paper bgs., c.l., Acme, Texas, frt. equald. ton.12.50 - —
Blue Rapids, Kan., frt. equald.. ton.10.50 - —
Harlem River, N. Y., frt. equald.. ton.13.00 - —
Medicine Lodge, Kan., frt. equald.. ton.12.50 - —
New Brighton, N. Y., frt. equald.. ton.13.00 - —
Southard, Okla., frt. equald.. ton.12.50 - —
Sweetwater, Tex., frt. equald.. ton.12.50 - —
Stucco, paper bgs., c.l., Acme, Texas; Akron, N. Y.; Blue Rapids, Kan.; Clarence Center, N. Y.; Fort Dodge, Ia.; Grand Rapids, Mich., Gypsum, Ohio; Harlem River, N.Y.; National City, Mich.; New Brighton, N. Y.; Plasterco, Ga.; Portsmouth, N. H.; Roton, Tex.; Southard ,Okla.; Sweetwater, Tex.; frt. equald.. ton. 8.00 - —
Saltville, Va., frt. equald. ton. 9.00 - —
Gypsum, terra alba, paper bgs., c.l., Harlem river, N. Y.; works.. ton.17.00 - —
New Brighton, N. Y.; Southard, Okla., works, ton.12.00 - —

## H

Hawthorn berries, bgs..... lb. .57 - .60
Heliotropin, cryst., cns..... lb. 2.75 - 4.00
Hellebore, white, powd., bbls.. lb. .43 - .47
Helonias root, bls..... lb. 2.50 - 2.75
Hematine extract, cryst., No. 6, bbls., l.c.l.. lb. .41 - —
No. 1, bbls., l.c.l..... lb. .40 - —
No. 1A, bbls., l.c.l..... lb. .37 - —
No. 2, bbls., l.c.l..... lb. .36 - —
No. 3, bbls., l.c.l..... lb. .34 - —
No. 4, bbls., l.c.l..... lb. .32 - —
No. 5, bbls., l.c.l..... lb. .30 - —
paste, No. 1, bbls., l.c.l..... lb. .17½- —
No. 2, bbls., l.c.l..... lb. .16½- —
No. 3, bbls., l.c.l..... lb. .15½- —
red, No. 4, bbls., l.c.l..... lb. .14½- —
Hemlock bark extract,[1,6] 25% tan. bbls., c.l., works.. lb No stocks
tanks, works..... lb No stocks
Henbane leaves, bls..... lb. 1.35 - 1.50
Henna leaves, bls..... lb. 25 - .26
powd., bbls..... lb. .28 - .31

# NATIONAL CAN

PLANTS: NEW YORK • BOSTON • BALTIMORE • CHICAGO • HAMILTON, OHIO • FORT WAYNE, INDIANA

## Canned Orange Juice to Taste Like Fresh

Constant research and experimentation with the canning of orange juice is reaping rewards and it won't be long before housewives can have the full taste values of the fresh fruit along with the time-saving and storage convenience of the tin can. Quicker processing and immediate cooling of the canned juice is the major step in preserving fresh flavor, and storage at low temperatures is a further aid. 1201

## Tin Can Captures New Fish

The lowly carp, long snubbed by fish fanciers, has come into its own, thanks to the tin can. A war-born industry, carp canning is here to stay, for the canning process debones and deodorizes the fish and gives it the firmness of salmon or tuna. 1202

## Still More Safety for Tin Cans

A vacuum testing machine to detect leaks in hermetically sealed cans is another war-born device that has peacetime value. The machine was used to detect leaks in the metal cans in which cartridges were packed. Cans pass on a conveyor belt through a vacuum chamber. If a can is imperfect, the viewing inspector will see air bubbles discharged. Its use to test hermetically sealed cans for all types of products is augured, and represents still another way of pre-checking the perfection of the can. 1203

## Increased Bactericidal Action

Numerous skin disorders which can be treated by the use of salves, lotions, ointments and the like are said to be more efficiently controlled and corrected by the use of medicinal preparations which are regulated as to their hydrogen-ion concentration. It is suggested that lotions be as near as possible to pH 5.4. 1204

## Canned Rye Bread

A new kind of bread that is literally the "staff of life" to people allergic to wheat is an unusual recent invention.

A 100% rye bread was prescribed for a patient who was allergic to milk, eggs and all cereal except rye. Since there was no 100% rye bread on the market, the patient's husband did some experimenting and came forth with a loaf that tastes, looks and cuts like bread and is made only of rye flour, vegetable oil shortening and yeast. Now, the husband is in the bread business, and thanks to the sturdy light-proof, air-proof tin can, his "prescription" oven-fresh bread is reaching the people who need it wherever they may be. 1205

# Technical Topics

NEW ANTACID — A new compound has been discovered which has the capacity to buffer and neutralize hydrochloric acid. The basic aluminum salt of aminoacetic acid is reported 42 per cent more effective in acid consuming power than dried aluminum hydroxide gel previously used. Extensive clinical investigations with the compound are now in progress under the supervision of prominent scientists. 1206

NEW VEGETABLE WAX FOR SOAP — A Brazilian vegetable wax is reported to have successfully replaced oleaginous products of the Far East in many soap products. 1207

HEAT ACTIVATION — Subtlethal heating of the spores of many thermotolerant aerobes is reported to have a determining influence on the number of spores which will germinate. 1208

NEW CELLULOSE HEMOSTATIC—Cellulose is coming into new use in medicine. A soluble cellulose, prepared by oxidating with nitrogen dioxide, is used as a hemostatic in internal, as well as external, bleeding. Methylcellulose is advanced as a satisfactory substitute for glycerin-gelatin in medicinal pastes and for natural gums as an emulsifying agent. 1209

GLUE PEELS PAINT—A strong solution of glue is suggested as an agent for the removal of blackout paint from windows and other glass surfaces, especially lamps. The painted surface is coated with the glue solution, which, when it has completely dried, peels the paint from the glass. 1210

PIPERINE AND PYRETHRIN INSECTICIDES — Compositions containing admixtures of varying proportions of piperine and pyrethrins are said to be unusually effective as insecticides. 1211

ALUMINUM CLEANER — Compositions for cleaning aluminum consist of an alkali metaphosphate or monobasic ammonium phosphate and a small proportion of an alkali fluoride with, optionally, a wetting agent and sulphamic or tartaric acid. 1212

NEW EMULSIFYING PRODUCT — A new emulsifying agent, which may be especially useful in the preparation of flavoring for use in cooking has been patented recently. The product consists of a combination of pectin and an "-onium" or amine salt. 1213

TREATMENT FOR SULFA TOXICITY—A patent has been issued recently for a chemical compound which will prove valuable in treating toxic effects of sulfathiazole, aspirin and thiouragil. 1214

INSOLUBLE SOAP USEFUL AS LUBRICANT—A mixture of three kinds of soaps which most people would never recognize as soaps is the basis for a recent patent. This soap—calcium stearate—is reported to be a valuable lubricant. 1215

NEW PHENOLIC GLUE — A new powdered resin glue has been announced recently. A hot-press phenolic glue, it is extensible with wheat flour and has been given strict performance tests in plywood and furniture panel stock. 1216

ELECTRO-BRIGHTENING OF ALUMINUM-SILICON ALLOYS — The value of glycerine in electropolishing and brightening of metals has been extended to aluminum-silicon alloys, according to a recent patent. 1217

NICOTINIC ACID CURE — A patent has been issued for a more simplified method of manufacturing nicotinic acid, cure for pellagra, from the decarboxylation of quinolinic acid. 1218

NEW WAX—It is announced that a new wax similar to Carnauba has been gathered from Calathea Sutrea, a broad leaf perennial in Brazil and Central America in experimental quantities and is being tested by the U. S. Department of Agriculture. 1219

ALCOHOL AND GLUCOSE FROM POTATOES—Butyl alcohol and glucose are two chemical products now made in quantities from surplus potatoes. 1220

**Every effort will be made to furnish additional information on these articles. Where such information is not obtainable, we will refer inquiries to the original source of the article. Write to National Can Corporation, 110 East 42nd Street, New York 17, N. Y. Please mention the number at end of article — also name of the magazine you saw it in.**

NATIONAL CAN CORPORATION
Manufacturers of
SANITARY PACKERS CANS • PLAIN AND LITHOGRAPHED CANS FOR FOODS, DRUGS, OILS, PAINTS, VARNISHES • STEEL DRUMS AND PAILS
Deliveries Subject to Priority Ratings

Heptane,[1] industrial grade, 50°-100° C., dms., c.l., Group 3, gal. .12½- —
l.c.l., Group 3.....gal. .13 - —
tanks, Group 3.....gal. .10½- —
77°-115° C., dms., c.l., Group 3..gal. .12 - —
l.c.l., Group 3.....gal. .13 - —
tanks, Group 3.....gal. .10½- —
laboratory grade, dms., c.l., Group 3..gal. .16 - —
l.c.l., Group 3.....gal. .20 - .55
Hexaldehyde, normal, dms., c.l., works..lb. 1.10 - —
Hexalin (see Cyclohexanone).
Hexamethylenetetramine,[1] tech., bbls., 1,000-lb. lots, Perth Amboy or N.Y.C..lb. .24 - —
smaller lots, same basis..lb. .25 - —
USP, dms., 500 lbs. or more, same basis..lb. .35 - —
smaller lots, same basis..lb. .36 - —
Hexane,[1] 60°-70° C., industrial grades, dms., c.l., Group 3, gal. .13½- —
l.c.l., Group 3.....gal. .13 - —
tanks, Group 3.....gal. .10½- .11
laboratory grade, dms., c.l., Group 3..gal. .18 - —
l.c.l., Group 3.....gal. .20 - .55
Hexanol, normal, dms., l.c.l., works..lb. .25 - —
Homatropine hydrobromide, bots. oz.16.00 -25.00
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago.... unit-ton. 5.00 - 5.50
Hops, NF, bls.....lb. .56 - 1.50
Horehound, bls.....lb. .10½- .12
Hydrangea root, bls.....lb. No prices
Hydrastine, alkaloid, bots....oz.20.00 -25.00
Hydrochloride, bots.....oz.20.00 -22.00
Sulphate, bots.....oz.29.00 -32.00
Hydrastinine, 10-gr. bots....bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrofuramide, dms., fib. cns., works..lb. .30 - .40
Hydrogen peroxide, USP, bbls. lb. .03¾- .04
100 vols., cbys., E. of Miss. River or West coast via Panama Canal..lb. .15½- .18¼
Hydroquinone, bbls., dms.....lb. .90 - .94
Hydroxycitronellal, cns.....lb. 5.75 - 6.80
dms., extra, ret'able, dlvd...lb. 4.50 - —
Hyoscine hydrobromide, bots..oz.39.00 -45.00
Hyoscyamine, bots.....oz.16.00 -20.00
Hydrobromide, bots.....oz.16.00 -20.00
Sulphate, bots.....oz.16.00 -20.00
Hypernic extract, cryst., No. 1, bbls., l.c.l..lb. .42 - —
No. 2, bbls., l.c.l.....lb. .34 - —
liquid, No. 1, bbls., l.c.l..lb. .24 - —
No. 2, bbls., l.c.l.....lb. .19 - —
solid, No. 1, bxs., l.c.l.....lb. .30 - —
Hyssop, bgs.....lb. 1.25 - 1.30

## I

Iceland moss, bgs.....lb. .50 - .52
Ichthammol, NF, bots.....lb. 2.45 - —
Indian red (see Red, Indian).
Indigo, nat., chests.....lb. 2.14 - 2.30
synth., paste, bots.....lb. .16½- .19
powd., bbls.....lb. .74½- .85
Indol, CP, bots.....lb.19.50 -22.00
Insect flowers (see Pyrethrum).
Iodine, crude, 25-lb. jars.....lb. 1.07 - —
150-lb. kgs.....lb. 1.23½- —
resubl., 5-lb. bots., jars.....lb. 1.75 - 1.85
Iodoform, 100-lb. dms., kgs....lb. 3.95 - 4.10
25-lb. jars or 5lb. dms.....lb. 4.20 - —
Ionone, ketone, bot.....lb. 8.00 - 9.00
Methyl, bot.....lb. 9.25 -12.00
Ipecac root, bgs.....lb. No prices
powd., bgs.....lb. No prices
Irish moss, ordinary, bls.....lb. .26 - .28
powd., 60-80 mesh, bbls..lb. .32 - .33
prime bleached, bls.....lb. .35 - .40
powd., 60-80 mesh, bbls..lb. .40 - .50
Iron acetate, liquor, bbls. e.l. dlvd..lb. .17 - —
l.c.l., dlvd.....lb. .18 - —
solut USP IX, 100-lb. cbys.lb. .17 - —
50-lb djns.....lb. .18 - —
Chloride (ferric), anhydr., tech., dms., c.l., works..100 lbs. 4.90 - 5.25
l.c.l., works.....100 lbs. 6.50 - 6.85
cryst., tech., bbls., works, frt. alld..100 lbs. 4.00 - 6.00
USP X, lump, bbls.....lb. .07 - .08½
solut., 42 Be, cbys., works, frt. alld. or equald...lb. .05½- .06
djns., same basis.....lb. .10 - —
Citrate, USP VIII, gran., dms., lb. .70 - .75
powd., cns.....lb. .84 - .87
Glycerophosphate, bbls.....lb. 3.40 - 3.52
Hypophosphite, bbls., dms...lb. 1.50 - 1.52
Iodide, bots.....lb. 3.18 - 3.32
Naphthenate, 6% Fe, 50-gal. dms..lb. .15 - —
Nitrate, red., tech., dms....lb. .08½- .09
Iron, oxalate, gran., dms.....lb. .36 - .38
powd., cns.....lb. .39 - —
kgs.....lb. .47 - .49
Phosphate, soluble, NF, gran., cns..lb. .54 - .57
Pyrophosphate, gran., cns...lb. .59 - .62
Reduced, 99%, kgs.....lb. .68 - .75
Resinate, 7.4% Fe, 100-lb. dms. lb. .17½- —
Sulphate (ferric), anhyd., bgs., c.l., works..ton.35.00 - —
l.c.l., works.....ton.40.00 - —
(ferrous) tech. (see Copperas).
USP, cryst., bbls., dms...lb. .05½- .11
Taliate, 4% Fe, 50-gal. dms..lb. .10½- —
Iron-ammonia citrate, brown, green, gran., pearls, dms.lb. .33 - .38
scale, dms.....lb. .49 - .53
Oxalate, bbls.....lb. .2½- —
dms., kgs.....lb. .36½- .36½
Iron-soda oxalate, bbls., dms..lb. .23½- .36½
Isobornyl acetate, cns., works.lb. .35 - .36
Propionate, dms., works....lb. No prices
Isoeugenol, cns., works.....lb. 3.75 - 4.25
Isopentane, dms., works.....lb. .46 - .55
Isophorone, dms., c.l., works..lb. .21 - —
l.c.l., works.....lb. .22 - —
tanks, works.....lb. .20 - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., E. of Rockies, frt. alld..lb. .11 - —
l.c.l. E. of Rockies, same basis..lb. .11½- .12
tanks, E. of Rockies, same basis..lb. .10 - —
Alcohol (see Alcohol, isopropyl).
Ether, dms., c.l., dlvd.....lb. .06 - —
l.c.l. .....lb. .06½- —
tanks, dlvd.....lb. .04½- —
Isopropylamine, dms., works..lb. .35 - —

## J

Jaborandi leaves, bls.....lb. .14 - .15
Jalap root, NF, bls.....lb. .32 - .33
powd., bbls., bxs.....lb. .38 - .39
Resin, lump, cns.....lb. 5.25 - —
powd., bxs.....lb. 5.90 - —
Juniper berries, dom., bgs.....lb. .44 - .58
Juniper tar, USP, dms.....lb. .85 - 1.00

## K

Kamala, cns.....lb. .53 - .55
Kaolin (see China clay).
Kava kava root, bls.....lb. .36 - .36
Kerosene, at refinery: Ark., 42-44 w.w., tanks..gal. .05 - —
Bayonne, 41-43 w.w., tanks..gal. .061 - —
California, 40-43 w.w., tanks, gal. .07 - —
Gulf ports, 41-43 w.w., tanks, gal. 04⅝- .05
Okla-Tex., 41-43 w.w., tanks, gal. .04875- —
Penn., 45 w.w., tanks....gal. .0625- .0705
47 w.w., tanks.....gal. .0705- —
Kola nuts, bgs.....lb. .09 - .10
Kyanite,[1] imp., low iron content, 10-mesh, whse..ton.85.00 -95.00
calcined, grain, 10-mesh, whse. ton.95.00 -105.00

## L

Ladyslipper root, bls.....lb. 1.35 - 1.40
Lanolin (see Adeps lanae).
Lard,[1,7] pure, ref. tres.....lb. .1822½- —
prime steam, tres.....lb. .1448- —
Larkspur seed, bgs.....lb. .82 - .85
Laurel berries, bls.....lb. .25 - .26
Leaves, Cyprus, bls.....lb. .23½- .32½
Greek, bls.....lb. No stocks
Portuguese, bls.....lb. .14½- .15
Turkish, bls.....lb. .17 - .17½
Lavender flowers, medium, bls.lb. .75 - .80
ordinary, bls.....lb. .48 - .60
select, bls.....lb. .90 - .95
Lead, acetate,[1] white, broken, bbls..lb. .12½- —
cryst., bbls.....lb. .12½- —
gran., powd., bbls.....lb. .13½- —
Arsenate,[1,6] basic powder, 3-lb. bgs. or larger, c.l..lb. .11½- .12
l.c.l. .....lb. .12 - .13½
1-lb. ctns. c.l.....lb. .13½- .23½
l.c.l. .....lb. .19 - .23
standard paste, cns. c.l..lb. .05¾- .06
l.c.l. .....lb. .06 - .06¼
powder, 3-lb. bgs. or larger, c.l..lb. .11 - .11½
1-lb. bgs., c.l.....lb. .16 - .20
l.c.l. .....lb. .16½- .20½
1-lb. ctns., c.l.....lb. .18 - .23
l.c.l. .....lb. .18½- .23½
½-lb. ctns., c.l.....lb. .21 - .25
¼-lb. ctns., l.c.l.....lb. .21½- .25½

Inside column is maximum OPA prices for manufacturers or distributors; outside column for all other purchasers. Lead arsenate prices are works or whse. basis, frt. alld. to dest. in lots of 96 lbs. or over; no frt. or truck allowance for works or whse. pick-ups.

Blue, basic sulphate, bbls., c.l., dlvd. E..lb. .07½- —
Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo..lb. .07¾- —
l.c.l., dlvd. E.....lb. .07¾- —
Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo. lb. .08 - —
Chloride, fib. dms.....lb. .42 - —
Iodide, NF V. bots.....lb. 2.80 - —
jars .....lb. 2.60 - —
Linoleate, pale, precip., bbls.lb. .23½- —
Metal,[1,8] (see Protective Coatings Materials market).
Metallic paste, dms., works..lb. No stocks
Naphthenate, 24%-30%, Pb..lb. .14¼- .17½
Nitrate, bbls.....lb. .12½- —
Oleate, bbls.....lb. .17¾- —
Peroxide, powd., tech., bbls.lb. .23 - .28
Red, 95% $Pb_3O_4$ or less, bbls., c.l. (20 tons), dlvd. Ala., Ariz., Ark., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Okla., Tex., Utah, Wyo., and E. of Cascade Mts. in Ore. and Wash..lb. .09¼- —
other points.....lb. .09 - —
l.c.l., 5 tons, dlvd. Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex., and W. Cascade Mts. in Ore. and Wash..lb. .09¾- —
Ariz., Idaho, Nev., Utah, and E. of Cascade Mts. in Ore. and Wash..lb. .10¾- —
Colo., Mont., N. Mex., Wyo..lb. .10 - —
other points.....lb. .09½- —
smaller lots, Ala., etc.lb. .10¼- —
Ariz., etc.....lb. .10¾- —
Colo., etc.....lb. .10½- —
other points.....lb. .09¾- —
In oil, kgs.....lb. .14 - —
97%, $Pb_3O_4$ bbls., c.l., dlvd. Ala., etc..lb. .09¼- —
other points..... ....lb. .09¼- —
Lead, red, 97%, $Pb_3O_4$, bbls., l.c.l., 5 tons, dlvd. Ala., etc..lb. .10 - —
Ariz., etc.....lb. .10½- —
Colo., etc.....lb. .10½- —
other points.....lb. .09¾- —
smaller lots, dlvd. Ala., lb. .10¾- —
Ariz., etc.....lb. .11 - —
Colo., etc.....lb. .10¾- —
other points.....lb. .10¾- —
95%, $Pb_3O_4$, bbls., c.l. (20 tons), dlvd., Ala., etc. lb. .09¾- —
other points.....lb. .09½- —
l.c.l., 5 tons, dlvd. Ala., etc..lb. .10¼- —
Ariz., etc.....lb. .10¾- —
Colo., etc.....lb. .10½- —
other points.....lb. .10 - —
smaller lots, dlvd. Ala., etc..lb. .10½- —
Ariz., etc.....lb. .11¼- —
Colo., etc.....lb. .11 - —
other points.....lb. .10½- —
Resinate, precip., 23.5% Pb., dms..lb. .17½- —
Silicate, bgs.....lb. .0730- .0780
Soyate, 26.15% Pb., dms.....lb. .22½- —
Stearate, bbls.....lb. .31 - .39
Sulphate (see Lead, blue; Lead, white, basic sulphate).
Tallate, 10% Pb. dms.....lb. .06½- —
Titanate, bgs., bbls., c.l., works, frt. alld..lb. .11 - —
l.c.l., 5 tons, one delivery, E., frt. alld..lb. .11¼- —
Pac. Cst., ex whse..lb. .11½- —
smaller lots. E. frt. alld. lb. .11¼- —
Pac. Cst., ex whse..lb. .11¾- —
White, basic carbonate, bbls., c.l., dlvd. Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Utah, Wash., and Wyo..lb. .08¼- —
dlvd. other points...lb. .08¼- —
l.c.l., dlvd. Ariz., etc...lb. .08¾- —
other points.....lb. .08¼- —
basic sulphate, dry, bbls., c.l., dlvd. Ariz., etc..lb. .07½- —
other points.....lb. .07¼- —
l.c.l., dlvd. Ariz., etc.lb. .08 - —
other points.....lb. .07½- —
in oil, consumers, kgs.....lb. .12¼- .12½
painters, kgs.....lb. .12¼- .12½
Lecithin, edible, dms., c.l.....lb. .35¼- —
l.c.l. .....lb. .39½- .43
in cocoa butter, dms., c.l..lb. .39¼- —
l.c.l. .....lb. .40¾- .50
tech., dms., c.l.....lb. .25¼- —
l.c.l. .....lb. .26¼- .43
vegetable, pure, bots, 100 lbs. lb. 2.75 - —
Lemon peel, bls.....lb. .30 - .35
Licorice extract, mass, cns....lb. .25 - .72
powd., bbls. .....lb. .60 - .68
Root, Indian, bls.....lb. .12 - .14
powder, bbls. .....lb. .18 - .20
Russian, bls. .....lb. .12 - .13
Spanish, bls. .....lb. .12 - .13
Turkish, bls. .....lb. .12 - .13
Lignin extract, tanning grade, bgs., c.l., works..lb. .04 - —
Lime, chemical (quicklime) lump, pebble, Adams, Mass..ton. 8.00 - —
Annville, Pa.....ton. 7.50 - —
Bellefonte, Pa.....ton. 7.50 - —
Berkeley, W. Va....ton. 7.50 - —
Buffalo, N. Y.....ton. 9.35 - —
Carey, Ohio.....ton. 7.00 - —
Cedar Hollow, Pa....ton. 8.50 - —
Crab Orchard, Tenn.ton. 6.90 - —
Eagle Mountain, Va.ton. 7.65 - —
Farnams, Mass.....ton. 8.00 - —
Gibsonburg, Ohio....ton. 7.50 - —
Hannibal, Mo.....ton. 6.50 - —
Keystone, Ala.....ton. 6.90 - —
Knoxville, Tenn.....ton. 6.90 - —
Limedale, Ark.....ton. 7.00 - —
Longview, Ala.....ton. 6.90 - —
Manistique, Mich....ton. 8.00 - —
Marblehead, Ohio....ton. 7.50 - —
Martinsburg, W. Va.ton. 7.50 - —
Menominee, Mich....ton. 8.00 - —
Mitchell, Ind.....ton. 6.50 - —
Newala, Ala.....ton. 6.90 - —
Ripplemead, Va.....ton. 7.65 - —
Riverton, Va.....ton. 7.65 - —
Rockland, Maine....ton. 8.00 - —
Scioto, Ohio.....ton. 6.50 - —
Sherwood, Tenn.....ton. 6.90 - —
Sherwood, Wisc.....ton. 8.50 - —
Springfield, Mo.....ton. 7.00 - —
Woodville, Ohio.....ton. 7.50 - —
York, Pa.....ton. 7.50 - —
Hydrated, Adams, Mass....ton. 9.00 - —
Annville, Pa.....ton. 9.00 - —
Bellefonte, Pa.....ton. 9.00 - —
Berkeley, W. Va.....ton. 9.00 - —
Buffalo, N. Y.....ton. 9.50 - —
Carey, Ohio.....ton. 8.50 - —
Cedar Hollow, Pa.....ton.10.00 - —
Crab Orchard, Tenn...ton. 9.65 - —
Eagle Mountain, Va...ton. 9.15 - —
Farnams, Mass.....ton. 9.00 - —
Gibsonburg, Ohio.....ton. 8.50 - —
Hannibal, Mo.....ton. 8.50 - —
Keystone, Ala.....ton.10.05 - —
Knoxville, Tenn.....ton. 9.65 - —
LeRoy, Minn.....ton.10.00 - —
Limedale, Ark.....ton. 9.00 - —
Longview, Ala.....ton. 9.65 - —
Manistique, Mich.....ton. 9.50 - —
Marblehead, Ohio.....ton. 9.50 - —
Martinsburg, W. Va..ton. 9.00 - —
Menominee, Mich.....ton.
Mitchell, Ind.....ton. 9.00 - —
Newala, Ala.....ton. 9.65 - —
Petoskey, Mich.....ton. 9.00 - —
Port Island, Mich.....ton. 9.00 - —
Rapid City, S. Dak...ton.12.00 - —
Ripplemead, Va.....ton. 9.15 - —
Rockland, Maine.....ton. 9.00 - —
Scioto, Ohio.....ton. 8.00 - —
Sherwood, Tenn.....ton.10.05 - —
Sherwood, Wisc.....ton.10.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 9.00 - —
Lime, spray, paper bgs., Adams, Mass..ton.10.00 - —
Annville, Pa.....ton.10.00 - —
Bellefonte, Pa.....ton.10.00 - —
Carey, Ohio.....ton.11.00 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio.....ton.10.00 - —
Marblehead, Ohio.....ton.10.00 - —
Rockland, Maine.....ton.10.00 - —
Scioto, Ohio.....ton.10.00 - —
Woodville, Ohio.....ton.10.00 - —
York, Pa.....ton.10.00 - —
Lime salts (see Calcium).
Lime-ammonia-nitrogen[6] 20.5% N. (see Ammonia nitrate-limestone).
Linalool, cns.....lb. 7.75 - 7.80
Linalyl acetate, ex lignaloe wood, bots..lb. 7.75 - 8.40
ex petitgrain, bots.....lb. 3.75 - 3.90
Linden flowers with leaves, bls., lb. .85 - .90
Linseed meal,[1,7] 34%, bulk, c.l. ton.45.00 - —
32%, bulk, c.l.....ton.43.00 - —


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ISOPROPYL ALCOHOL (REFINED 99%)
ISOPROPYL ALCOHOL (REFINED 91%)
ISOPROPYL ETHER
MESITYL OXIDE
METHYL ETHYL KETONE
METHYL ISOBUTYL CARBINOL
(METHYL AMYL ALCOHOL)
METHYL ISOBUTYL KETONE

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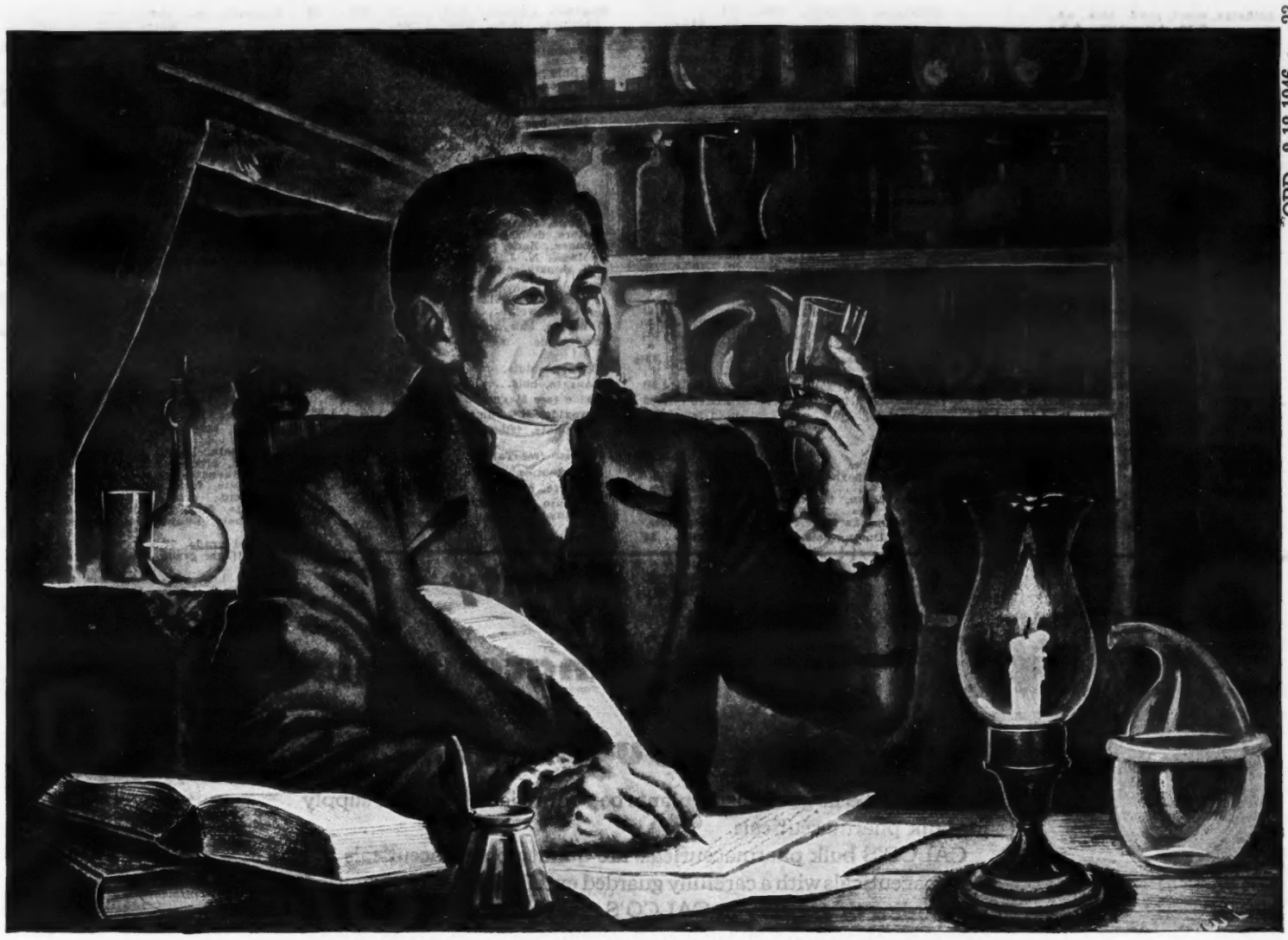

OPD—2-18-1946 23

# Sir Humphrey Davy Defines Potassium

THE chemical makeup of potash remained a mystery until the experiments of Sir Humphrey Davy. Attempting to decompose potash by electrolysis, Davy's first efforts succeeded in decomposing nothing but the water. Changing his plan of attack, Davy said, "The presence of water appearing to prevent any decomposition, I used potash in igneous fusion." To the new metal thus produced, "the basis of potash," Davy gave the name "Potassium."

Modern research has shown that, with the exception of lithium, potassium is the lightest known metal. Potassium fuses at 62.3° C. and boils at 760°, emitting an intensely green vapor.

For more than three-quarters of a century, every potassium compound bearing the MALLINCKRODT trade mark has been manufactured in strict conformity to MALLINCKRODT'S tradition of fine chemicals. For potassium products of uniformity and dependability, **specify MALLINCKRODT Potassium Acetate, Bicarbonate, Bromide, Iodate, Iodide, Phosphate, Sulfate, Sulfite, Meta-Bisulfite, etc.**

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Litharge, com'l, powd., bbls., c.l., dlvd. Ala., Ariz., Ark., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Okla., Tex., Utah, Wyo. and E. of Cascade Mts. in Ore. and Wash..lb. .06¼- —
other points.....lb. .06 - —
l.c.l., 5 tons, dlvd. Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex., and W. of Cascade Mts. in Ore. and Wash. lb. .06¾- —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash..lb. .07¼- —
Colo., Mont., N. Mex., Wyo..lb. .08 - —
other points.....lb. .08¼- —
smaller lots, dlvd. Ala., etc..lb. .08¾- —
Ariz., etc.....lb. .09¾- —
Colo., etc.....lb. .09¼- —
other points.....lb. .09 - —
Lithium carbonate, NF, bags, kgs..lb. 1.25 - 1.39
Bromide, bbls., 100-lb. lots, works, frt. equald..lb. 1.90 - —
smaller lots, works.....lb. 1.92 - 1.96
Chloride, jars.....lb. 1.68 - 1.70
Citrate, bbls., dms., kgs....lb. 1.40 - 1.41
Fluoride, bbls.....lb. 2.45 - 2.60
Hydroxide, jars.....lb. 1.25 - 1.46
Iodide, bots.....lb. 5.28 - —
jars.....lb. 5.05 - —
Stearate, fib. dms., 5 tons, works..lb. .50 - —
Lithopone,[1] ordinary, bgs., c.l. (20 tons)..lb. .04¼- —
l.c.l.....lb. .04¼- —
Lithopone, ordinary, bbls., c.l. lb. .04¼- —
l.c.l.....lb. .04¾- —
titanated, (high-strength), bgs., c.l..lb. .0560- —
smaller lots.....lb. .0565- —
bbls., c.l.....lb. .0585- —
smaller lots.....lb. .0610- —
Lithopone, c.l., dlvd. Pac. Cst., ¼c. higher; l.c.l., ex whse. Pac. Cst., ½c. higher.
bbls., l.c.l..lb. .24 - —
Liverwort leaves, bls.....lb. .65 - .80
Lobelia herb, bls.....lb. 1.10 - 1.15
Lobeline sulphate, bots., wks..oz.25.50 -28.00
Logwood extract, crystals, No. 1, No. 2, bbls., l.c.l.....lb. .22 - —
liquid, No. 1, bbls., c.l.....lb. .17 - —
No. 2, bbls., l.c.l.....lb. .16 - —
No. 3, bbls., l.c.l.....lb. .15½- —
No. 4, bbls., l.c.l.....lb. .15 - —
solid, No. 1, bgs., l.c.l.....lb. .23 - —
No. 2, bxs., l.c.l.....lb. .26 - —
bbls., c.l., Zone 1.....lb. .09½ —
No. 4, bxs., l.c.l.....lb. .22 - —
No. 3, bxs., l.c.l.....lb. .23½- —
No. 5, bxs., l.c.l.....lb. .21½- —
No. 6, bxs., l.c.l.....lb. .20½- .44½
Lovage root, American (ligusticum actea folium), bls..lb. 1.20 - 1.60
Lupulin, NF, tin.....lb.12.75 -13.00
Lycopodium, USP, cs.....lb. 1.75 - 2.00

## M

Mace,[1,7] Amboyna, cs.....lb. .77 Nom.
Banda, cs.....lb. .90 Nom.
West Indian, bgs.....lb. .63 Nom.
No. 1, bgs.....lb. .60 Nom.
broken, bgs.....lb. .55 Nom.
Madder, Dutch, bbls.....lb. .24 - .30
Magnesia arsenate,[1] dms.....lb. .152 - .16
Calcined, tech., USP, bbls., works..lb. .26 - —
Carbonate, tech., bgs., c.l., l.c.l., Zone 1..lb. .07¼- —
bbls., c.l., Zone 1.....lb. .07½- —
l.c.l., Zone 1.....lb. .09½- —
kgs., c.l., Zone 1.....lb. .08¾- —
l.c.l., Zone 1.....lb. .09¾- —
USP, bgs., c.l., Zone 1....lb. .08 - —
l.c.l., Zone 1.....lb. .09 - —
bbls., c.l., Zone 1.....lb. .08½- —
l.c.l., Zone 1.....lb. .09½- —
kgs., c.l., Zone 1.....lb. .09¾- —
l.c.l., Zone. 1.....lb. .10¾- —
Magnesia carbonate prices, basis Phillipsburg, N. J., and Plymouth Meeting, Valley Forge, Pa.; l.c.l. prices ½c. lower, Zone 3 store delivery; store door delivery, both zones. Zone 1—Conn., Del., D. C., Md., Mass., N. J., N. Y., Pa., and R. I.; Zone 2, remainder of U. S.
Chloride, anhyd., bbls., dlvd..lb. .12½- —
flake, bbls., c.l., works...ton.82.00 - —
l.c.l., works.....ton.89.00 -42.00
Fluoride, bbls.....lb. .20 - .21
Hydroxide, medicinal, bbls., dms., kgs..lb. .29 - .30
Hypophosphite, cns.....lb. 1.45 - —
Laurate, bbls.....lb. .33 - .35
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works..lb. 1.00 - 1.35
Phosphate, tribasic, USP, bbls. lb. .60 - —
Silicate (see Talc).
Silicofluoride, bbls.....lb. .08 - .09
Stearate, ctns.....lb. .31 - .32
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000-lb. contracts..lb. .37 - —
smaller lots.....lb. .42 - —
Magnesite, cal., powd., bgs., c.l. mines, Calif..ton.88.75 - —
dead-burnt,[1] bulk, c.l., f.o.b. Chewelah, Wash..ton.22.00 -32.00
Maleic anhydride, dms., c.l.....lb. .25 - —
l.c.l.....lb. .26 - —
Malva flowers, black, bls.....lb. No stocks
blue, bls.....lb. 1.25 - 1.30
Leaves, bls.....lb. .43 - .44
Manaca root, bls.....lb. .50 - .51
Mandrake root, bls.....lb. .33 - .34
Manganese acetate, dms.....lb. .25½- —
Arsenate,[8] bgs.....lb. .12 - .13¼
Borate, tech., bbls.....lb. .16 - .19
Carbonate, bbls.....lb. .10 - —
Chloride, anhyd., bbls.....lb. .15 - .18
Dioxide, African, battery, 84%-87%, bbls., 28-40 tons, works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
Caucasian, 85-90%, bbls., c.l., works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
85-90%, burlap bgs., c.l., works..ton.71.75 - —
l.c.l., works.....ton.74.75 -79.75
paper bgs., c.l., works.ton.70.00 - —
l.c.l., works.....ton.73.00 - —
Glycerophosphate, bgs., bbls., 1,000-lb. lots..lb. 3.05 - —
100-lb. lots.....lb. 3.15 - —
cns., 25 lbs.....lb. 3.27 - —
Hydrate, bbls., dlvd.....lb. .24 - —
Iodide, bots.....lb. 5.70 - —
jars.....lb. 5.55 - —
Linoleate, liquid, 4%, dms..lb. .20 - —
solid, precip., 8.2%, bbls...lb. .22 - —
Naphthenate, 6% Mn, dms..gal. .16 - —
Resinate, fused, 3½%, bbls..lb. .09 - .10½
precip., dms.....lb. .14½- .15½
Soyate, 8.2% Mn, dms.....lb. .22 - —
Sulphate, anhyd., dms., works, lb. No stocks
feed grade, 77-80%, bgs...lb. .04 - .05
fertilizer grade, 65%, bgs., c.l., dlvd. East..ton.59.50 - —
l.c.l., same basis, or Balto. or Cincinnati...ton.68.50 - —
industrial grade, 80%, bgs..lb. .05 - .05½
Tallate, 4% Mn, dms.....lb. .09 - —
Mangrove bark,[1,9] E. Africa, 35% tannin, c.l., ex dock, U. S. ports..ton.63.00 -64.00
Manna, flake, large, cs.....lb. No stocks
small, cs.....lb. No stocks
Mannitol,[6] com'l, bbls., works.lb. .35 - .40
reagent, cs. or multiples, works..lb. .35 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
California, French type, new crop, bls., Pacific Coast..lb. .24 - .25
Chilean, bls.....lb. .12½- .13
Matico leaves, bls.....lb. .22 - .24
Menadione, USP, bots.....gram. .10 - —
Menthol, natural, USP, cns..lb. 4.40 - 4.50
synthetic, tech., cns.....lb. No prices
USP, laevo, cns.....lb. No prices
racemic, cns.....lb. 4.00 - 4.60
Menthyl salicylate, tins.....lb. 3.00 - 3.10
Mercurial ointment, USP, mild, 10%, tubs..lb. .70 - .72
30%, pails.....lb. 1.30 - —
50%, pails.....lb. 1.88 - 1.94
Mercury bichromate[3] (see Corrosive sublimate).
Bisulphate, dms.....lb. 2.59 - 2.61
Chloride (see Calomel).
Cyanide, cryst., powd.....lb. 3.86 - —
Iodide, red, NF, dms., kgs..lb. 4.30 - —
yellow, fib. dms., kgs.....lb. 4.35 - —
Nitrate ointment (see Citrine ointment).
Oxide, red, NF (see Red precipitate).
yellow, USP, fib. dms.....lb. 2.94 - 2.96
tech. (see Yellow, mercury oxide).
Mercury and chalk, dms.....lb. 1.66 -1.76
Mesityl oxide, dms., c.l., dlvd..lb. .11½- —
l.c.l., dlvd.....lb. .12 - —
tanks, dlvd.....lb. .10½- —
Metal leaf, composition, 5½x5½ in..pkg. 3.00 - —
Gold X+, deep, 23, 3¾x3¾ in., pkg.15.00 - —
Silver, 3⅝x3¾ in.....pkg. 8.00 - —
Metanitroparatoluidin, bbls....lb. 1.05 - 1.10
Metaphenylenediamine, kgs....lb. .65 - —
Metatolylenediamine, kgs.....lb. .70 - —
Methanol,[1] natural, all grades, dms., c.l., E. of Miss. R., gal. .86 - —
l.c.l., same basis.....gal. .73 - —
tanks, same basis.....gal. .69 - —
Inside prices on natural methanol W. of Miss. R., 3c. higher.
tanks, Zone 1, frt. alld...gal. .24 - —
2, frt. alld. or dlvd....gal. .34 - —
3, frt. alld.....gal. .36 - —
4, frt. alld.....gal. .38 - —
l.c.l., Zone 1, frt. alld. or dlvd..gal. .36 - —
2, frt. alld.....gal. .48 - —
3, dlvd. S. P. and L. A. gal. .41 - —
4, frt. alld. or dlvd...gal. .51½- —
Methanol, synth., tanks, Zone 1, frt. alld..gal. .24 - —
2, frt. alld.....gal. .27 - —
3, frt. alld.....gal. .29 - —
4, frt. alld.....gal. .30 - —
Synthetic methanol zones are:—Zone 1—Conn., Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C., Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo. Zone 3—Los Angeles and San Francisco. Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco), Ida., Mont., Nev., Ore., Utah, and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.
Methyl abietate, non-ret. dms., c.l., dlvd..lb. .08¼- —
10 dms., dlvd.....lb. .09¾- —
1-9 dms., dlvd.....lb. .10¾- —
hydrogenated, non-ret. dms., c.l., dlvd..lb. .12 - .15½
10 dms.....lb. .13¼- .16¾
1-9 dms.....lb. .14¼- .17¾
Acetate, CP, 97-99%, dms., c.l., E. of Miss..lb. .10½- .12
W. of Miss.....lb. .11½- .12
l.c.l., E. of Miss.....lb. .11 - .14
W. of Miss.....lb. .12 - .13½
tanks, E. of Miss.....lb. .09¼- —
W. of Miss.....lb. .10¼- —
tech., dms., c.l., E. of Miss. lb. .07 - .09
W. of Miss.....lb. .08 - —
l.c.l., E. of Miss.....lb. .07½- .11
W. of Miss.....lb. .08½- .10½
tanks, E. of Miss.....lb. .06 - —
W. of Miss.....lb. .07 - —
Acetoacetate, dms., c.l., works, .30¼- —


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Sulfapyridine U.S.P. (and Sodium Salt)
Sulfanilamide U.S.P. . . . available in powder or 30/80 mesh crystals
Aminoacetic Acid U.S.P.
Calcium Pantothenate
Choline Chloride
Choline Dihydrogen Citrate
Cinchophen N.F. (and Sodium Salt)
Neocinchophen U.S.P.
Glutamic Acid Hydrochloride
Mandelic Acid U.S.P. (and Calcium Salt)
Menadione U.S.P.
Methylene Blue U.S.P. (Powder or Crystals)
Nicotinamide U.S.P.
Saligenin
Phenothiazine N.F. (for Veterinary Use)
Certified Colors for Pharmaceutical and Cosmetic Use

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BOUND BROOK Calco NEW JERSEY

ARMY E NAVY

*Canadian Representatives*
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137 Wellington St., W., Toronto

Methyl acetone, natural, Group A, dms. incl., E, of Miss., frt. allc..gal. .66 - —
l.c.l., same basis....gal. .76 - —
tanks, same basis.....gal. .60 - —
Natural methyl acetone prices W. of Miss. R., 3c. per gal. higher.

Group B, dms., c.l., Zone 1, frt. alld..gal. .63 - —
Zone 2, same basis.gal. .65 - —
Zone 3, same basis.gal. .67 - —
Zone 4, same basis.gal. .69 - —
l.c.l., Zone 1, same basis, gal. .66 - —
Zone 2, same basis.gal. .83 - —
Zone 3, same basis.gal. .70 - —
Zone 4, same basis.gal. .83 - —
tanks, Zone 1, same basis, gal. .60 - —
Zone 2, same basis.gal. .62 - —
Zone 3, same basis.gal. .64 - —
Zone 4, same basis.gal. .64½- —
Natural methyl acetone zones are:—Zone 1, Conn., Del., D. of C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D., Tex., Wyo. Zone 3—Los A., San Fran., Seattle, Wash.; Portland, Ore. Zone 4—Ariz., Cal., Idaho, Mont., N. Mex., Nev., Ore., Utah. Wash.

Synthetic, dms., c.l., Zone 1. gal. .51 - —
Zone 2.....gal. .52 - —
Zone 3.....gal. .53½- —
Zone 4.....gal. .54½- —
l.c.l., Zone 1.....gal. .54½- —
Zone 2.....gal. .57 - —
Zone 3.....gal. .58 - —
Zone 4.....gal. .59½- —
tanks, Zone 1.....gal. .43 - —
Zone 2.....gal. .44½- —
Zone 3.....gal. .45½- —
Zone 4.....gal. .45½- —
Synthetic methyl acetone zones are:—Zone 1—Conn., Del., D. C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Penn., R. I., S. C., Tenn., Vt., Va., W. Va., Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. D., Tex., Wyo. Zone 3—Los Angeles, Cal.; San Francisco, Cal.; also (c.l. only) Portland, Ore. and Seattle, Wash. Zone 4—Ariz., Cal., N. Mex., Mont., Nev., Idaho, Ore., Utah. Wash.

Alcohol (see Methanol).
Anthranilate, bots.....lb. 2.20 - 2.35
Benzoate, cns.....lb. .48 - —
Bromide, cns.....lb. .75 - .80
cyls.....lb. .65 - .75
Chloride, refrigeration, cyls., 500 lbs. and up, machine mfrs. and jobbers, cylinders..lb. .32 - —
service men and consumers, cyl..lb. .36 - —
60 to 499 lbs., mach. mfrs. and jobbers..lb. .36 - —
service men and consumers..lb. .40 - —
tanks, multi-unit, machine mfrs. and jobbers..lb. .31 - —
service men and consumers..lb. .36 - .40
Methyl chloride quotations are spot or contract, ship. point; prices above are in 60, 90 and 180-lb. cylinders; 20-lb. cylinders 10c. per pound higher.

Cinnamate, cns.....lb. 2.25 - —
Formate, dms.....lb. .89 - —
Iodide, bots.....lb. 4.00 - 4.15
Lactate, dms., c.l., dlvd.....lb. No stocks
Oleate, dms., c.l.....lb. .35 - —
Salicylate,[1] dms., 500 lbs.....lb. .35 - —
25-50 lbs.....lb. .37 - .38
Methylamyl ketone, cns., dms., works..lb. .30 - .33
Methylcellulose, special, vis. (4,000 cps.) fib. ctns., 2,000 lbs. or more, frt. alld..lb. .60 - —
smaller lots, frt. alld.....lb. .65 - .70
standard vis. (15-1,500 cps.), fib. ctns., 2,000 lbs. or more, frt. alld..lb. .53 - —
smaller lots, frt. alld.....lb. .58 - .63
Methylcyclohexane, 98-100%, dms., works..lb. .16 - —
Methylcyclohexanol, 98-100%, dms., works..lb. .28 - —
Methylcyclohexanone, 98-100%, dms., works..lb. No stocks
Methylene blue, USP, kgs. 100 lbs. 2.00 - 2.15
cns., 5 lbs.....lb. 2.25 - —
Chloride, refrig., dms., wks..lb. .18 - .20
solvent, dms., works.....lb. .12 - .15
Methylethyl ketone, dms., dlvd. lb. .09 - —
l.c.l., dlvd.....lb. .09½- —
tanks, dlvd.....lb. .06 - —
Methylhexyl ketone, dms., tech., works—lb. .60 - —
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Methylisobutyl ketone, dms., c.l., dlvd..lb. .11½- —
l.c.l., dlvd.....lb. .12 - —
tanks, dlvd.....lb. .10½- —
Methylnaphthyl ketone, cns...lb. 3.25 - 3.75
Methylpentanediol, dms., c.l., works..lb. .16 - —
l.c.l., works.....lb. .16½- —
1 and 5-gal. cont., works..lb. .20½- .23½
tanks, works.....lb. .15 - —
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works.ton.47.50 - —
l.c.l., works.....ton.51.00 - —
roofing, 20 mesh, bgs., c.l., works..ton.32.50 -33.00
l.c.l., works.....ton.38.00 -40.00
30-31 mesh, bgs., c.l., works, ton.32.50 -35.00
l.c.l., works.....ton.37.50 -40.00
40-45 mesh, bgs., c.l., works, ton.32.50 -35.00
l.c.l., works.....ton.37.50 -40.00
80 mesh, bgs., c.l., works, ton.40.00 -42.50
l.c.l., works.....ton.44.00 -45.50
graphitic, bulk, Pa., mines, ton.80.00 - —
wet-grd., biotite, bgs., c.l., works, frt. alld. E..lb. .04½- —
l.c.l., ex whse., or frt. alld. E..lb. .05 - —
extra fine, bgs., c.l., works, frt. alld. E..lb. .04¾- —
l.c.l., ex whse. or frt. alld. E..lb. .05¼- —
paint or lacq., bgs., c.l., works, frt. alld. E..lb. .05½- —
l.c.l., ex whse. or frt. alld. E..lb. .06 - —
rubber, bgs., c.l., works, frt. alld. E..lb. .05¼- —
l.c.l., ex whse. or frt. alld. E..lb. .05¾- —
wallpaper, bgs., c.l., works, frt. alld. E..lb. 05½- —
l.c.l., ex whse, or frt. alld. E..lb. .06 - —

Mica, wet-grd., white, extra fine, bgs., c.l., works, frt. alld. E..lb. .06½- —
l.c.l., ex whse. or frt. alld. E..lb. .07 - —
Mica, wet-grd., W. of Miss. R., ½c. higher, W. of Rockies, ¾c. higher.
Milk powder,[1,7] skimmed, roller, bulk, c.l..lb. .14½- —
spray, bulk, c.l.....lb. .13¾- —
whole, roller, bbls, c.l.....lb. .29 - —
spray, bbls., c.l. .....lb. .30 - —
Milk sugar,[1] bbls., c.l., works.lb. .26 - —
l.c.l., works.....lb. .26¾- .27½
Mineral spirits (see Petroleum, mineral spirits).
Molasses,[1,6] blackstrap, tanks, works, Area 1..gal. .18 - —
Area 2 .....gal. .18½- —
Area 3.....ton.26.00 - —
Area 4.....ton.29.00 - —
tanks, Area 5.....ton.34.00 - —
Area 1, Fla., Ga., La., Tex.; Area 2, Mass., Md., N. J., N. Y.; Area 3, Calif; Area 4, Colo., Idaho, Kan., Mont., Neb. (excepting Grand Island), S. D., Utah, Ore., Wash., Wyo.; Area 5, Ia., Md., Mich., Minn., Grand Island, Neb., Ohio, Wis.
Molybdate orange (see Orange, molybdate).
Molybdenum metal,[1,6] kgs., 99%, powd..lb. 2.60 - 3.00
Trioxide,[1,6] pure, kgs., works, basis Mo. content..lb. .93 - —
technical, kgs., works, basis Mo. content..lb. .80 - —
Monoamylamine, dms., c.l., works, basis 100%..lb. .61 - —
l.c.l., works, basis 100%, lb. .64 - —
Monochlorobenzene, dms., c.l., works..lb. .05½- —
l.c.l., works.....lb. .07 - .08
Monoethanolamine, dms., c.l., frt. alld. E..lb. .24 - —
l.c.l., same basis.....lb. .25 - —
tanks, same basis.....lb. .23 - —
Monoethylamine, dms., c.l., works, basis 100%..lb. .17 - —
l.c.l., works, basis 100%....lb. .18 - —
tanks, 100% basis, works....lb. .15 - —
Monomethylamine, dms.....lb. .68 - —
Monomethylpara-aminephenol sulphate, dms..lb. 2.40 - 2.90
Monosodium phosphate (see Soda phosphate, monobasic).
Morphine, bots., 5 ozs.....oz.11.10 - —
cns., 25 ozs.....oz.10.90 - —
Acetate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Hydrobromine, 5 ozs.....oz. 8.95 - —
cns., 25 ozs.....oz. 8.75 - —
Hydrochloride, bots., 5 ozs..oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Sulphate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Morpholine, dms., l.c.l., works, lb. .67 - —
smaller containers, works...lb. .75 - —
Mullein leaves, cns.....lb. .12 - .133
Musk, nat., Tonquin, grains, bots., oz.55.00 -60.00
synthetic, ambrette, cns., 100 lbs., or more..lb. 4.00 - 9.10
25 lbs.....lb. 4.10 - 9.10
5 lbs.....lb. 4.25 - 9.45
ketone, cns., 100 lbs. or more..lb. 4.15 - 9.25
25 lbs.....lb. 4.25 - 9.35
5 lbs.....lb. 4.40 - 9.70
Musk, xylol, cns., 100 lbs. or more..lb. 1.40 - 2.00
25 lbs.....lb. 1.50 - 2.00
5 lbs.....lb. 1.65 - 2.90
Muskroot, bls.....lb. 2.25 - 2.30
Mustard seed, Calif., brown, bgs. lb. .14 - .14½
yellow, bgs.....lb. .21 Nom.
Danish, yellow, bgs., futures, lb. .24 - .25
Montana, brown, bgs.....lb. .11 - .11½
oriental, bgs.....lb. .11 - .11¾
yellow, bgs.....lb. .24 - .24½
Swedish, bgs., futures.....lb. .23 - .23½
Washington, yellow, bgs...lb. .24½- .25
Myrobalans,[2] whole, J1, U. S. ports, ex dock..ton.53.00 - —
J2, same basis.....ton.52.00 - —

## N

Naphtha, painters (see Petroleum naphtha, V. M. & P.).
Solvent (see S).
Naphthalene, crude, dom., 74°, bgs., c.l., frt. equald..lb. .03 - —
bbls., c.l., same basis...lb. .031 - —
tanks, same basis.....lb. .0275- —
78°, bgs., c.l., same basis.. lb. .0325- —
bbls., c.l., same basis...lb. .0325- —
tanks, same basis.....lb. .03 - —
refined, balls, flakes, bbls., wholesalers and jobbers, works..lb. .03 - —
50-lb. cs., same basis....lb. .03¼- —
1-lb. pkgs., same basis...lb. .03¾- —
Neocinchophen, USP, dms.....lb. 7.00 - 7.10


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Yes, Bemis Waterproof Bags are a real "ounce of prevention" against shipping and storage hazards for a wide range of products. These bags are tear-resistant and puncture-resistant. They give your product protection against loss or absorption of moisture, sifting, contamination and damage from insects. The experience of many shippers proves them to be efficient, economical export packages.

Bemis Waterproof Bags usually cost less than other containers giving equal protection and because they are easy to handle and fill, they often save you time and money on your production lines.

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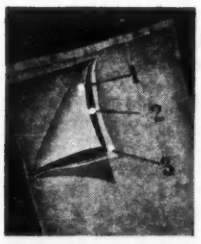


**1.** Inside layer of flexible creped kraft paper impregnated with a...

**2.** Layer of waterproof adhesive that also seals the pores in the...

**3.** Outside layer of burlap or cotton and cements both layers together.

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(PRODUCT)

*Name* _____
*Company* _____
*Street* _____
*City* _____ *State* _____

Nepheline syenite,[1] glass grade, 24 mesh, bulk, Rochester, N. Y..ton.12.00 - —
pottery grade, 200 mesh, bulk, Rochester, N. Y..ton.15.50 - —
Nephelinesyenite in bgs. is $2 per ton higher than bulk.
Nerolin, crys., cns.....lb. 1.70 - 1.80
Niacin (see Acid, nicotinic).
Nickel, carbonate, bbls.....lb. .36 - .36¼
Chloride, bbls.....lb. .18 - .20
Cyanide, bots., dms.....lb. No stocks
Oxide, black, bbls.....lb. .35 - .38
Salt, bbls.....lb. .13 - .13½
Nicotine sulphate, 40%, dms., 50 lbs. to dealers, frt. allowed over 96 lbs..lb. .3660- —
tins, 10 lbs.....lb. 1.015 - —
Nicotinamide, USP, dms....kilo.11.00 -11.80
Nikethamide, bots., cbys.....lb. 9.00 -12.00
Nitercake, bulk, works.....ton.16.00 - —
Nitrobenzene, dbl. dist., dms., c.l., lb. .08 - —
l.c.l. .....lb. .09 - —
tanks .....lb. .07 - —
Nitrocellulose, alcohol-soluble, ½ sec., 30-35 cps., bbls., works, dry weight..lb. .28 - —
5-6, 40-60 cps., same basis, lb. .27 - —
ester-soluble, ¾, ½ sec., 30-35 cps., bbls., works, dry weight..lb. .26 - —
5-6, 15-20 cps. and higher, bbls., works, dry weight, lb. .25 - —
Nitrocellulose:—Denatured alcohol used in manufacture is charged extra. Barrels extra, but returnable.
Nitroethane, dms., works.....lb. .25 - —
Nitrogen solut., tanks.....ton N.108.21 - —
Prices adjusted to ammonia sulphate basis from ports, and anhydrous ammonia basis.
Nitrogenous process tankage,[1,7] Hopewell, Va., bulk, works, unit-ton. 3.15 - 3.60
Sewage sludge,[1] bulk, works, unit-ton, 2.60 + .40 - 3.00 + .40
Nitromethane, dms., c.l., works, lb. .25 - —
Nitronaphthalene, bots.....lb. .24 - .25
Nitropropane I, dms., works...lb. .25 - —
II, dms., works.....lb. .25 - —
Nutgalls,[5] Aleppo, bgs.....lb. No stocks
Chinese, bgs.....lb. No stocks
Nutmegs,[1,7] West Indian, No. 1, futures..lb. .34½- .34⅝
Nux vomica, bls.....lb. .10 - .11
powder, bbls., bxs.....lb. .13½- .14

## O

Oakbark extract,[1,5] 25% tannin, bbls., c.l., works..lb. No stocks
Octane,[1] 100° C-140° C, industrial grade, dms., c.l., G.S..gal. .15½- —
l.c.l., G. S.....gal. .29 - —
10 gals., G.S.....gal. .55 - —
tanks, G.S.....gal. .12 - —
Octanol, normal, tech., 360-lb. dms., dlvd..lb. .35 - —
Oil, almond, artificial (see Benzaldehyde).
Bitter, F.P.C., bots.....lb. 4.60 - 5.25
USP, bots.....lb. No prices
Sweet, exp., dms., cns.....lb. 1.10 - 1.35
Angelica root, bots.....lb.120.00 -135.00
Seed, bots.....lb. No stocks
Anilin (see A).
Anise, Russian, USP, cns....lb. 4.00 - —
Chinese, dms.....lb. 3.65 - 5.50
Apricot kernel, cns.....lb. .45 - .50
Avocado, cns., dms.....lb. 1.00 - 1.10
Babassu,[1,7] tanks.....lb. .1110- —
Oil, bay, W. I., 50-55%, cns..lb. 1.45 - 1.65
Puerto Rican, 55-60%, cns..lb. 1.75 - —
Bergamot, artif., cns.....lb. 2.25 - 6.00
natural, Italian, cns.....lb. 8.50 -10.00
Birch (see Oil, sweet birch).
Birchtar, crude, cns.....lb. No stocks
rectified, cns.....lb. No stocks
Bois de rose, Brazil, cns....lb. 5.25 - 7.00
Mexican (see Oil, lignaloe wood).
Bone, dms., works.....gal. .65 - .70
Cade, USP IX (see Juniper tar).
Cajeput, tech., dms.....lb. No stocks
redistilled, USP IX, cns....lb. No stocks
Calamus, cns.....lb.20.00 -27.00
Camphor, synthetic, white, cns. lb. .18 - .22
Cananga, native, cns.....lb. 8.00 -12.50
rectified, cns.....lb. No stocks
Capsicum (see Capsicum, oleoresin).
Caraway, NF, cns.....lb. 8.50 -11.50
Cardamom, bots.....lb.17.00 -18.00
Cassia, USP, cns.....lb.10.75 -14.00
Castor,[5] blown, ret. dms., c.l. lb. .15¼- —
l.c.l. .....lb. .16 - —
cold pressed, USP, bbls., c.l. lb. .14 - —
l.c.l. .....lb. .14½- —
cns. .....lb. .15½- .17¾
dms., c.l.....lb. .12¾- —
l.c.l. .....lb. .14¼- —
tanks .....lb. .13 - —
dehydrated, bodied, dms., c.l. lb. .1790- —
l.c.l. .....lb. .1850- —
tanks .....lb. .1750- —
unbodied, dms., c.l.....lb. .1690- —
tanks .....lb. .1650- —
No. 3, tech., bbls., c.l.....lb. .13¾- —
l.c.l. .....lb. .14¼- —
dms., c.l.....lb. .13¼- —
l.c.l. .....lb. .14¼- —
Oil, castor, No. 3, tech., tanks, lb. .12¼- —
sulphonated, 50% (46% fat), dms., c.l..lb. .09½- .09¾
l.c.l. .....lb. .10½- .11
75% (63% fat), dms., c.l..lb. .12½- .12¾
l.c.l. .....lb. .13 - .13¼
80% (68% fat), dms., c.l..lb. 12¾- .13
l.c.l. .....lb. .13¾- .14
Cedarleaf,[1] USP, cns., dms..lb. 2.50 - 2.75
Cedarwood, dms.....lb. 1.00 - 1.10
Celery, bots.....lb.16.50 -18.00
Chaulmoogra, USP, cns.....lb. .60 - .65
Chinawood (see Oil, tung).
Cinnamon bark, bots.....lb.32.50 -34.50
leaf, dms.....lb. 1.40 - 1.85
Citronella, Ceylon, cns.....lb. 1.70 - 1.75
Clove, USP, cns.....lb. 1.60 - 1.75
Coconut,[1,7] crude, Ceylon, bulk, c.i.f. N. Y..lb. .0695- —
Cochin type, bulk, c.i.f. N. Y..lb. .0695- —
Manila, bulk, c.i.f. N. Y..lb. .0625- —
ret. dms.....lb. .0685- .0695
edible, ex tax, bulk.....lb. .0695- —
Cod, Newfoundland, dms....gal. .88 - .90
tanks .....gal. .86 - —
Codliver, USP, bbls., dms..gal. 2.15 - 2.25
Coriander, bots.....lb.25.00 -35.00
Corn,[1,7] crude, tanks, works..lb. .12¾- —
edible, dms., l.c.l.....lb. .16¼- .16½
tanks .....lb. .1502- —
foots, acid, 95%, tanks, dlvd. E..lb. .07¼- —
raw, 50%, tanks, dlvd. E..lb. .06½- —
Cottonseed,[2,7] crude, tanks, works..lb. .12½- .13½
foots, acid, 95% tanks, dlvd. E..lb. .07⅝- —
raw, 50%, tanks, dlvd. E., lb. .03⅝- —
salad, l.c.l., dms.....lb. .16¾- .17
Creosote (see C).
Croton, NF, cns.....lb. No prices
Cubeb, cns.....lb. No prices
Crude (see Petroleum, crude).
Cumin, bots.....lb. No stocks
Cypress, bots.....lb.12.00 -16.00
Degras (see D).
Dillseed, bots.....lb. 6.00 - 7.00
Dillweed, bots.....lb. 4.25 - 5.00
Dip (see D).
Erigeron, cns.....lb. 2.25 - 2.40
Eucalyptus, 80-90%, cns.....lb. 1.18 - 1.40
Fennel, sweet, cns.....lb. 4.00 - —
Fir, Canada, cns.....lb. 2.25 - 2.75
Fishliver,[1] dms., less than 40,000 A units per gram... per million units. .14 - —
for each 1,000 additional A units up to 200,000 per gram. per million units. .001 - —
200,000 or more A units.... per million units. .30 - —
Fuel (see Petroleum, fuel oil).
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns....lb. No stocks
Geranium, Bourbon, cns.....lb.17.50 -22.00
Russian, cns.....lb. No stocks
Turkish (see Oil, palmarosa).
Ginger, dist., bots.....lb.12.00 -13.50
Grapefruit, cns.....lb. 2.05 - 2.75
Grease, common, No. 1, bbls., c.l..lb. .14 - —
extra, No. 1 bbls., c.l.....lb. .14½- —
Winter strained, bbls., c.l..lb. .15 - —
prime, burning, bbls., c.l..lb. .16 - —
inedible, bbls., c.l.....lb. .15¼- —
Guaiacwood, cns.....lb. 3.20 - 4.15
Hemlock, cns.....lb. 2.00 - —
Herring,[1] crude, tanks, Pac. coast..lb. .089 - —
Juniper, berry, dom., bots ...lb. 6.75 - 7.50
Juniper tar, USP (see Juniper Tar).
Juniper wood, tech., cns.....lb. .90 - 1.00
Lard oil (see Oil, grease).
Laurel, bots.....lb. No prices
Lavandin, cns.....lb. 8.00 - 8.75
Lavender flower, French, 38%-42% ester, cns..lb.13.00 -16.00
30-32% ester.....lb. 8.50 - —
Russian, cns.....lb.14.50 - —
spike, Spanish, pure, cns...lb. 2.75 - 3.10
tech., cns.....lb. 2.35 - 2.50
Lemon, USP, Calif., cns.....lb 3.25 - —
Messina,[1] cns.....lb. No stocks
Terpeneless, bots.....lb.40.00 -50.00
Lemongrass, cns., dms.....lb. 2.95 - 3.85
Lignaloe seed, Mexican, cns. lb. No stocks
wood, Mexican, cns.....lb. 4.85 - 6.25
Brazilian (see Bois de Rose).
Lime, distilled, Mexican, cns., lb. 6.00 - 6.75
West Indian, cns.....lb. 7.00 - 7.50
expressed, West Indian, cns., lb.13.50 -15.00
Linseed,[1,7] raw, dms., c.l...lb. .1550- —
l.c.l. .....lb. .1600- .1630
tanks .....lb. .1470- —
tankwagon .....lb. .1470- —
Boiled linseed oil, .004 higher than raw.
Linseed, replacement, dms., c.l..lb. .1400- .1550
tanks .....lb. .1320- .1470
Lubricating,[1] at refinery, ex tax, California, neutral, pale, 200-800 vis., 2¼-4 pour, tanks..gal. .07¼- .11
red., 200-900 vis., 4-6½ pour, plus tanks..gal. .07¼- .11¼
Group 3, bright stock, 150-160 vis., 0.25 pour, tanks, gal. .23 - —
neutral, 300 vis., No. 3, col., 0-10 pour, tanks, gal. .16 - —
200-300 vis., No. 3, col., 15-25 pour, tanks gal. .15 - 16
Pa., bright stock, 145-155 vis., No. 8 color, 10-25 pour, tanks..gal. .25 - .33½
cylinder oils, 600-630 flash, tanks..gal. .16 - .17
600-650 steam, refd., tanks..gal. .15 - .15½
neutral, 70° F., No. 3 color, 150 vis., 25 pour, tanks..gal. .28 - .31
200 vis., 25 pour, tanks, gal. .28 - .33
Mace, dist., cns., dms.....lb. 4.75 - 5.25
Mandarin, Brazilian, cns....lb. 6.50 - 8.75
Menhaden,[1,7] crude, tanks, Balto..lb. .0690- —
refined, alkali, dms., l.c.l..lb. .1400- —
kettle-bodied, dms., l.c.l..lb. .1500- —
light-pressed, dms., l.c.l..lb. .1300- —
tanks .....lb. .1225- —
Mineral, white (see Oil, white mineral).
Mustard, artif., USP, cns....lb. 1.45 - 1.65
Seed, exp., dms., extra....lb. 14¾- —
Neatsfoot,[1] 15°, bbls.....gal. 1.80 - 1.85
20°, bbls.....gal. 1.75 - 1.80
30°, bbls.....gal. 1.55 - 1.60
pure, bbls.....lb. .15¼- .16½
Neroli, French, bots.....lb.250.00 - —
Haitian, bots.....lb.200.00 - —
Oiticica,[1] liquid, dms., c.l...lb. .24½- —
dms., l.c.l. .....lb. .25 - —

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| | | |
|---|---|---|
| Oil, oleo,[1] extra, dms., Chicago, lb. | .1304- | — |
| prime, dms., Chicago | .1275- | — |
| Olibanum, bots. | 5.00 | - — |
| Olive, denat., dms. | gal. | No stocks |
| edible,[1] Calif., 85%-½% f.f.a., dms., extra, works. | gal. | 4.30 - 4.80 |
| imported, dms. | gal. | No stocks |
| foots,[1] dom., dms., c.l. | lb. | .18 - — |
| tankcars, works | lb. | .17 - — |
| imp.,[1] dms., c.l., ex dock, lb. | | .18 - — |
| tankcars, ex dock | lb. | .17 - — |
| sulphonated, 50% (40% fat), dms., c.l. | lb. | No stocks |
| l.c.l. | lb. | No stocks |
| 50% (35% fats), dms., c.l. | lb. | No stocks |
| l.c.l. | lb. | No stocks |
| 95% (90% fat), dms., c.l. | lb. | No stocks |
| l.c.l. | lb. | No stocks |
| Orange, sweet, dist., cs. | lb. | 1.25 - — |
| expressed, USP, Brazilian, cns. | lb. | 1.25 - 1.60 |
| Calif., cns. | lb. | 1.65 - 2.00 |
| Florida, cns., dms. | lb. | 1.40 - 1.60 |
| Messina, coppers | lb. | No stocks |
| West Indian, cns. | lb. | 2.75 - 3.00 |
| sesquiterpeneless, bots. | lb. | 100.00 -112.00 |
| Origanum, Spanish, cs. | lb. | 2.85 - 3.00 |
| Palm,[1,7] Niger, dms. | lb. | .0865- — |
| Palmarosa, cns. | lb. | No stocks |
| Palmkernel,[1,7] crude, bulk, c.i.f. N.Y. | lb. | .0885 Nom. |
| Paraffin,[1] 300° flash, 100-110 vis., tanks, G.S. | gal. | .06½- .06¼ |
| 320° flash, 60-70 vis., tanks, G.S. | gal. | .06 - — |
| 330° flash, 70-80 @ 100 vis., 0/10 pour, G.S. | gal. | .06 - — |
| 80-85 vis., 0/10 pour, bbls., extra, ind. ref'y. | gal. | .06¼- — |
| 100-110 vis., 0/10 pour, same basis | gal. | .06½- .15 |
| 10/25 pour, same basis | gal. | .06¼- .06¾ |
| Patchouli, cns. | lb. | No stocks |
| Peanut,[1,7] bleached, deod., tanks, divd. E. | lb. | .1501- — |
| crude, tanks, works | lb. | .12½- .13¾ |
| foots, acid, 95%, tanks, divd. E. | lb. | .09 - — |
| raw, 50%, tanks, divd. E. | lb. | .04 - — |
| hydrogenated, tanks, divd. E., lb. | | .1375- .1375 |
| Pennyroyal, dms., cns. | lb. | No prices |
| import, cns. | lb. | No prices |
| Peppermint,[1] natural, dms. | lb. | 6.25 - 6.85 |
| redist, USP, dms. | lb. | 6.75 - 7.50 |
| Perilla, crude, dms. | lb. | No stocks |
| Petitgrain, Paraguay, cns., dms., lb. | | 2.55 - 2.75 |
| Pimento, berry, dms. | lb. | 6.85 - 6.00 |
| leaf, cns. | lb. | 4.00 - 4.25 |
| Pine,[1] ret. dms., c.l., divd. E., gal. | | .62 - .62½ |
| l.c.l., divd. E. | gal. | .73 - — |
| tanks, works | gal. | .55 - — |
| Pineneedle, cns. | lb. | 2.10 - 2.25 |
| Putty, bbls., E. Segundo, Richmond, Cal. | gal. | .22½- — |
| contracts | gal. | .19½- — |
| dms., c.l., Whiting, Ind. | gal. | *.04 - — |
| Boston, Providence | gal. | .25 - — |
| l.c.l., same basis | gal. | .27 - — |
| tanks, same basis | gal. | .15 - — |
| Martinez, Cal. | gal. | .28 - — |

* Extra for bbls., but subject to quantity discounts, ranging from 2c. to 5c. per gallon, according to amount purchased.

| | | |
|---|---|---|
| Rapeseed,[1] bulk | lb. | .13 - — |
| Red,[1] ret. bbls., c.l., dms., divd. E. of Rockies | lb. | .13¼- — |
| W. of Rockies | lb. | .14½- — |
| Texas and Okla. | lb. | .12¾- — |
| tanks, divd. E. of Rockies | lb. | .12¾- — |
| W. of Rockies | lb. | .13½- — |
| Texas and Okla. | lb. | .13 - — |
| double dist., ret. dms., c.l., divd. E. of Rockies | lb. | .15½- — |
| W. of Rockies | lb. | .16½- — |
| Texas and Okla. | lb. | .16¾- — |
| special non-ret, dms., bbls., c.l., divd. E. of Rockies | lb. | .16¾- — |
| W. of Rockies | lb. | .17¾- — |
| Texas and Okla. | lb. | .17¼- — |

Red oil prices for ton lots are ½ cent per pound higher, and 1 cent higher for less than ton lots.

| | | |
|---|---|---|
| Rose, natural, coppers | oz. | 31.25 -45.00 |
| Rosemary, Spanish, tech., cns., dms. | lb. | 1.25 - 1.35 |
| USP, cns., dms. | lb. | 1.60 - — |
| Rosin, 1st rectified, dms. | gal. | .60 - — |
| 2nd rectified, dms. | gal. | .68 - — |
| 3rd rectified, dms. | gal. | .72 - — |
| Rue, bots. | lb. | 5.00 - 5.25 |
| Sage, Spanish, cns. | lb. | 2.50 - 2.70 |
| Sandalwood, NF, Mysore, cns., case lots. | lb. | 7.00 - 7.25 |
| Sardine, crude,[1,7] tanks, Pac. coast. | lb. | .089 - — |
| refined, alkali, dms., l.c.l. | lb. | .1400- — |
| kettle-bodied, dms., l.c.l. | lb. | .1500- — |
| light-pressed, dms., l.c.l. | lb. | .1300- — |
| tanks | lb. | .1225- — |
| Sassafras, artif., cns. | lb. | .55 - .60 |
| natural, cns., dms. | lb. | 2.00 - 2.20 |
| Savin, cns. | lb. | No stocks |
| Savory, cns. | lb. | 8.00 - — |
| Seal,[1] No. 1, tanks, U.S. ports. | lb. | .089 - — |
| Sesame,[1,7] tanks | lb. | .1430- — |
| Shingle stain, bbls., c.l., works. | gal. | .2135- — |
| l.c.l., works | gal. | .23 - .30 |
| tanks, works | gal. | .15 - .16 |
| Snakeroot, Canada, cns. | lb. | No stocks |
| Soybean,[1,7] clarified, dms. | lb. | .1296- .1335 |
| tanks | lb. | .1250- — |
| crude, tanks, Decatur | lb. | .1175- — |
| deod., Winter, tanks | lb. | .1393- — |
| ret. dms. | lb. | .1500- .1540 |
| foots, acid, 95%, tanks, divd. E. | lb. | .07¼- — |
| raw, 50%, tanks, divd. E. | lb. | .03¼- — |
| refd., varnish, dms. | lb. | .1380- .1400 |
| tanks | lb. | .1340- .1347 |
| Spearmint, dms. | lb. | 4.00 - 4.25 |
| Sperm, bleached, 38°, dms. | lb. | .1443- — |
| natural, 45°, dms. | lb. | .1310- — |
| Spruce,[1] cns., dms. | lb. | 2.55 - 2.75 |
| Sunflower,[7] imp., refined, tanks, lb. | | .1438- — |
| semi-refined, tanks | lb. | .1430- — |
| Sweet birch, North, cns. | lb. | 4.00 - 5.00 |
| South, cns. | lb. | 2.50 - 2.75 |
| Tall,[1] crude, dms., c.l., works, ton. | | 53.65 -55.00 |
| l.c.l., works | ton. | 58.65 -62.65 |
| tanks, works | ton. | 49.00 -45.00 |
| refined, dms., c.l., works | lb. | .05 - .05¼ |
| l.c.l., works | lb. | .05½- — |
| tanks, works | lb. | .04½- — |
| Tallow, acidless, bbls. | lb. | .14¼- — |
| tanks | lb. | .13¾- — |
| Tansy, cns. | lb. | No stocks |
| Tar,[1] pine, crude, dms., c.l., divd. E. cities | gal. | .32½- — |
| l.c.l., works | gal. | .29½- — |
| tanks, divd. E. cities | gal. | .27 - — |
| rectified, USP, bbls. | gal. | .60½- — |

| | | |
|---|---|---|
| Oil, tar acid (see T). | | |
| Thyme, NF, red, cns. | lb. | 2.75 - 3.15 |
| white, cns. | lb. | 3.05 - 3.35 |
| Tung,[1] dms., c.l. | lb. | .39 - .39½ |
| l.c.l. | lb. | .40 - .41 |
| tanks | lb. | .38½- — |
| Turkey red (see Oil, castor, sulphonated). | | |
| Turpentine, rectified, USP, cns., dms. | lb. | .27 - .29 |
| Vetiver, Bourbon, cns. | lb. | 27.00 -30.00 |
| Whale,[1] ref., natural, dms. | lb. | .1167 Nom. |
| Winter bleached, dms. | lb. | .1233 Nom. |
| Wheat germ, dms. | gal. | 10.00 -13.50 |
| White mineral, tech., 50-65 vis., dms., incl., c.l. | gal. | .34 - — |
| l.c.l. | gal. | .37 - .41 |
| 65-75 vis., dms., dms. incl., c.l. | gal. | .35 - — |
| l.c.l. | gal. | .38 - .42 |
| USP, 80/90 vis., dms., dms. incl., c.l. | gal. | .37 - — |
| l.c.l. | gal. | .40 - .44 |
| 125/135 vis., dms., dms. incl., c.l. | gal. | .46 - — |
| l.c.l. | gal. | .49 - .53 |
| 145/155 vis., dms., dms. incl., c.l. | gal. | .46 - — |
| l.c.l. | gal. | .51 - .55 |
| 175/185 vis., dms., dms. incl., c.l. | gal. | .50 - — |
| l.c.l. | gal. | .53 - .57 |
| 200/210 vis., dms., dms. incl., c.l. | gal. | .54 - — |
| l.c.l. | gal. | .57 - .61 |
| 235/245 vis., dms., dms. incl., c.l. | gal. | .62 - — |
| l.c.l. | gal. | .65 - .69 |
| 55, 70 and 85 vis., non-ret. dms., San Francisco. | gal. | .42 - — |
| smaller lots, same basis, gal. | | .44 - .47 |
| 100 vis., non-ret. dms., 65 dms., San Francisco. | gal. | .51½- — |
| Oil, white mineral, USP, 100 vis., non-ret. dms., San Francisco, smaller lots, same basis. | gal. | .53½- .56½ |
| 145 vis., non-ret. dms., 65 dms., San Francisco. | gal. | .59 - — |
| smaller lots, same basis, gal. | | .61 - .64 |
| 180 vis., non-ret., dms., 65 dms., San Francisco. | gal. | .62½- — |
| smaller lots, same basis, gal. | | .64½- .67½ |
| 340 vis., non-ret. dms., 65 dms., San Francisco. | gal. | .74 - — |
| smaller lots, same basis, gal. | | .76 - .79 |
| Wintergreen, natural, North, cns. | lb. | 5.50 -8.50 |
| South, cns. | lb. | 4.00 - 4.25 |
| synthetic (see Methyl salicylate). | | |
| Wood (see Oil, tung). | | |
| Wormseed,[1] cns. | lb. | 5.00 - 5.15 |
| Wormwood, cns. | lb. | 4.25 - 5.50 |
| Ylang-ylang, Bourbon, bots. | lb. | 8.00 -21.00 |
| Oleostearin,[1,7] dms., Chicago | lb. | .1061- — |
| Olivine, aggregate, c.l., mines, ton. | | 7.00 - 9.50 |
| crushed, 8 mesh, bulk, c.l., works | ton. | 9.00 - — |
| paper bgs., c.l., works | ton. | 9.50 - — |
| lumps, paper bgs., c.l., works, ton. | | 7.00 - — |
| spalls, paper bgs., c.l., works, ton. | | 8.00 - — |
| Opium gum, USP, cns., 50-lb. lots. | lb. | 13.00 - — |
| 25-lb. lots. | lb. | 13.25 - — |
| smaller lots. | lb. | 13.50 -13.60 |

Prices on powd. and gran. USP opium are $1.50 per pound higher.

| | | |
|---|---|---|
| Orange, cadmium, selenide, bbls., 100-lb. lots, works | lb. | 1.50 - — |
| Dinitroaniline, toner[1] | lb. | 1.05 - — |
| Molybdate,[1] bbls. | lb. | .41 - — |
| Orthonitroaniline toner,[1] bbls., kgs., works | lb. | .80 - 1.05 |
| Persian,[1] bbls. | lb. | .39 - .45 |
| Orange mineral, American, bbls., 5 tons, divd. Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex. and W. of Cascade Mts. in Ore. and Wash. | lb. | .12¼- — |
| divd. Ariz., Idaho, Nev., Utah, and E. of Cascade Mts. in Ore. and Colo., Mont., N. M., Wyo. | lb. | .12¾- — |
| other points | lb. | .13 - — |
| Orange mineral, Amer., bbls., smaller lots, Ala., etc. | lb. | .13¾- — |
| Ariz., etc. | lb. | .13¼- — |
| Colo., Mont., N. M., Wyo. | lb. | .13 - — |
| other points | lb. | .12¾- — |
| Orange peel, bitter, Haitian, bgs., | lb. | .13½- .14 |
| sweet, bbls. | lb. | .14 - .14½ |
| Oregano, Mexican, curly leaf, bgs. | lb. | .06½- .09 |
| flat leaf, bgs. | lb. | .06¼- .09¾ |
| Orris root, Florentine, bls. | lb. | .35 - .39 |
| Verona, bls. | lb. | No stocks |
| Portuguese, bls. | lb. | .43 - .49 |
| Orthoamylphenol, dms., works. | lb. | .25 - — |
| Orthoanisidin, bbls. | lb. | .70 - — |
| Orthochloraniline, dms. | lb. | .69 - — |
| Orthochlorephenol, dms. | lb. | .25 - .27 |
| Orthocresol,[8] 30.4° C. min., M.P., dms., c.l., works. | lb. | .17½- .18 |
| l.c.l., works. | lb. | .18 - .18½ |
| 29° C. min., M.P., dms., c.l., works. | lb. | .16½- .17 |
| l.c.l., works. | lb. | .17 - .17½ |
| Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies, | lb. | .07 - — |
| l.c.l., same basis | lb. | .08 - — |
| tanks, same basis | lb. | .06½- — |

Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.


# ★ MUSK AMBRE

Crystalline body with Musk Ambrette note. Deep — rich — full aroma with remarkable fixative qualities. Economical. *Write for prices and sample.*

# ★ FLORANOL

A single chemical used in compounding Rose Odors. Blends with or replaces Phenyl Ethyl Alcohol. *Samples on Request.*

# ★ CYCLAMAL

*The Accepted Basis for Floral Perfumes*

*(Lily of the Valley, Lilac, etc.)*

A single chemical having properties most desired by perfumers.

*Great Strength*

(5 times stronger than Hydroxy Citronellal with which it blends well.) Result: Economy.

PERSISTENT IN ODOR — FREEDOM FROM DISCOLORATION
FREEDOM FROM IRRITATION — CYCLAMAL IS OF 100% PURITY

Manufactured in the U.S.A.

# ★ AMERICAN DISTILLED OILS

*brings you the Fragrance of the Pine Forest*

PURE OILS DISTILLED ESPECIALLY FOR US

*Exceptionally Fine Quality*

Oil of Spruce — Oil of Balsam Fir American
Oil of Cedar Leaf American Pure — Oil of Pine Needles American

They come to you as they come from the still in the state of absolute purity. Samples will convince you of the added value to be had from these Pure Quality Oils.

# ★ ALDEHYDES

ALDEHYDE C-8 — ALDEHYDE C-10 — ALDEHYDE 12-M
ALDEHYDE C-16 — ALDEHYDE C-18

*Requests for samples on your firm's letterhead will be promptly answered.*

*Aromatics Division*
GENERAL DRUG COMPANY
125 Barclay St., New York 7, N. Y.
9 S. CLINTON STREET, CHICAGO 6 — 1019 ELLIOTT STREET, W. WINDSOR, ONT.

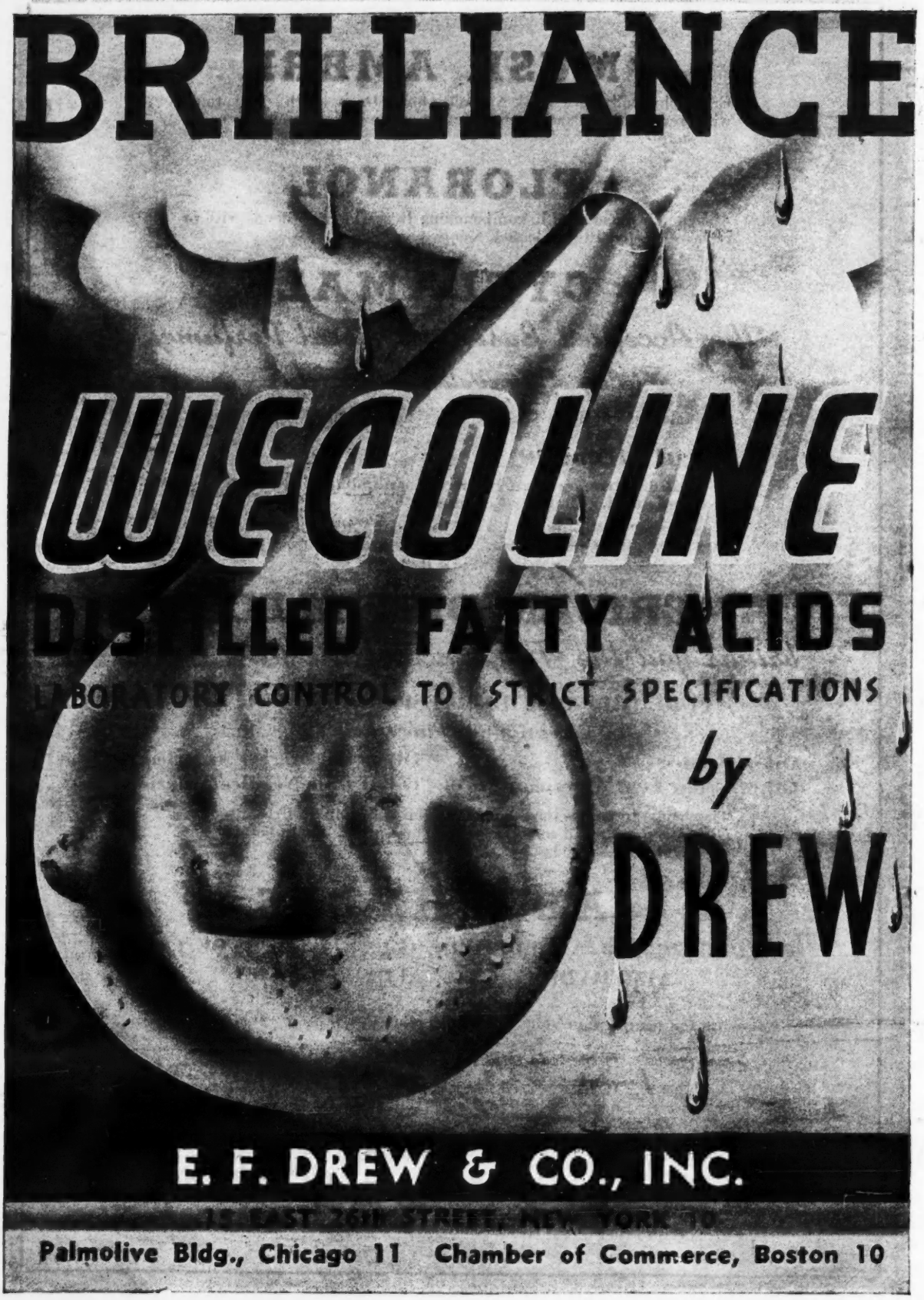
| | | | |
|---|---|---|---|
| Orthonitroaniliin, dms. | lb. | .43 - | .5 |
| Orthonitrobiphenyl, tech., grade A., dms., c.l., works. | lb. | .10 - | – |
| l.c.l., works. | lb. | .11 - | – |
| grade B, dms., c.l., works. | lb. | .06 - | – |
| l.c.l., works. | lb. | .07 - | – |
| Orthonitrochlorobenzene, dms. | lb. | .15 - | .1 |
| Orthonitroparachlorophenol, cns., | lb. | .75 - | – |
| Orthonitrotoluene, dms. | lb. | .09 - | – |
| Orthophenetidin, dms. | lb. | .92 - | – |
| Orthotoluidin, dms. | lb. | .19 - | – |
| Osage orange crystals, bbls. | lb. | .23 - | – |
| Extract, No. 1, bbls. | lb. | .11 - | – |
| No. 2, bbls. | lb. | .10 - | – |
| Ouabaine, USP, bots. | gram | 3.00 - | 4.00 |
| Oxyquinolin sulphate, cns., 100 lbs., works. | lb. | 3.50 - | – |
| smaller lots, works. | lb. | 3.75 - | 4.15 |

# P

| | | | |
|---|---|---|---|
| Papain, powd., cs. | lb. | 4.25 - | 4.50 |
| Papaverine, natural or synthetic, hydrochloride, NF, cns., 100-oz. lots. | oz. | 7.00 - | – |
| smaller lots. | oz. | 7.05 - | 7.35 |
| Spanish, bgs. | lb. | .45 - | .46 |
| Paprika,[1] Calif., sweet Caliente, ground, bgs. | lb. | .40 - | .41 |
| Chilean, bgs. | lb. | .32 - | .40 |
| Portuguese, bgs. | lb. | .38 - | .42 |
| Spanish, bgs. | lb. | .45 - | .46½ |
| Para-anisidin, dms., works. | lb. | .75 - | – |
| Parachlorophenol, dms., c.l., wks. | lb. | .24 - | – |
| l.c.l., same basis. | lb. | .25 - | .27 |
| Paracresol, bbls., works. | lb. | .41 - | – |
| Paracymene, dms., c.l., works. | lb. | .1300- | – |
| l.c.l., same basis. | lb. | .1645- | – |
| tanks, same basis. | lb. | .1545- | – |
| Paradichlorobenzene, dms., c.l., works. | lb. | .11 - | .12 |
| l.c.l., same basis. | lb. | .12½- | .13 |
| Paraffin,[1] crude scale, white or yellow, 124-126 ASTM, bbls., c.l., refinery. | lb. | .04¼- | – |
| fully ref'd, slabs, loose, 117-119 ASTM, c.l., refinery. | lb. | .05 - | – |
| 120-122 ASTM, refinery. | lb. | .0520- | – |
| 122-124 ASTM, refinery. | lb. | .0530- | – |
| 125-127 ASTM, refinery. | lb. | .0560- | – |
| 127-129 ASTM, refinery. | lb. | .0585- | – |
| 128-130 ASTM, refinery. | lb. | .0625- | – |
| 130-132 ASTM, refinery. | lb. | .0615- | – |
| 132-134 ASTM, refinery. | lb. | .0640- | – |
| 135-137 ASTM, refinery. | lb. | .0715- | – |
| 140-142 ASTM, refinery. | lb. | .0810- | – |
| 146-148 ASTM, refinery. | lb. | .1050- | – |
| Prices in bags 4/10c. per lb. higher. | | | |
| Paraformaldehyde, dms., 1,000 lbs. or more, works. | lb. | .21 - | – |
| smaller lots, works. | lb. | .22 - | – |
| Paraldehyde, tech., 98%, 55 and 110-gal. dms., l.c.l., wks. | lb. | .12 - | – |
| 10-gal. dms., works. | lb. | .15 - | – |
| USP, cbys., cns. | lb. | .35 - | .45 |
| Paranitroaniliin, kgs., works. | lb. | .41 - | .43 |
| Paranitrochlorobenzene, kgs., wks. | lb. | .15 - | – |
| Paranitrophenol, kgs. | lb. | .35 - | – |
| Paranitrotoluene, kgs., works. | lb. | .30 - | – |
| Paraphenylenediamine, tech., kgs. | lb. | 2.00 - | – |
| Paratoluenesulphonamide, bbls. | lb. | .70 - | – |
| Paratoluidin, bbls., works. | lb. | .48 - | – |
| Paris green,[1] dealer, distributor, dms., kgs., c.l., works, frt. alld. | lb. | .20 - | .27 |
| l.c.l., same basis. | lb. | .22 - | .28 |
| Passion flower herb, bls. | lb. | .23 - | .24 |
| Patchouli leaves, bls. | lb. | .34 - | .35 |
| Pectin, bbls. | lb. | 1.25 - | – |
| Penicillin,[4,6] ampule, per 100,000 unit. | | .55 - | .95 |
| Pennyroyal leaves, bls. | lb. | .16 - | .18 |
| Pentachlorophenol, dms., works, | lb. | .20 - | .25 |
| Pentaerythritol, CP, bbls., dlvd. | lb. | .75 - | – |
| smaller containers. | lb. | 1.00 - | – |
| tech., bbls., c.l. | lb. | .27 - | – |
| l.c.l. | lb. | .31 - | – |
| Pentane, 28°-38° C, industrial grade, dms., c.l., Group 3. | gal. | .11 - | – |
| l.c.l., dms., Group 3. | gal. | .19 - | – |
| industrial grade, tanks, Group 3. | gal. | .07½- | .07½ |
| laboratory grade, 10-gal. cns., dlvd. E. | gal. | .55 - | – |
| dms., c.l., Group 3. | gal. | .16 - | – |
| l.c.l., Group 3. | gal. | .29 - | – |
| Pepper, black,[1,7] 15 tons, bgs. | lb. | .10 - | – |
| 50 to 100 bgs. | lb. | .1050- | – |
| 4 to 24 bgs. | lb. | .1100- | – |
| Red, capsicum, Carolina, longs, new crop, bgs., ship't point. | lb. | No stocks | |
| sports, old crop, bgs. | lb. | No stocks | |
| Louisiana, sports, bgs. | lb. | No stocks | |
| long, new crop, bgs., ship't point. | lb. | No stocks | |
| Chillies, bgs. | lb. | No stocks | |
| White,[1,7] bgs., 15 tons. | lb. | .1161 | Nom. |
| 24 bgs. | lb. | .1295 | Nom. |
| Peppermint, dom., USP, bls. | lb. | .85 - | .90 |
| imported, bls. | lb. | .90 | Nom. |
| Perchloroethylene, dms., c.l., Zone 1, works, frt. alld. | lb. | .0782- | .0800 |
| Zone 2, same basis. | lb. | .0832- | .0850 |
| Zone 3, same basis. | lb. | .0882- | .0900 |
| Zone 4, same basis. | lb. | .0876- | .0900 |
| Perchloroethylene, dms., l.c.l., Zone 1, same basis. | lb. | .0832- | .0850 |
| Zone 2, same basis. | lb. | .0882- | .0900 |
| Zone 3, same basis. | lb. | .0932- | .0950 |
| Zone 4, same basis. | lb. | .0926- | .0944 |

Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3), Col., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

| | | | |
|---|---|---|---|
| Peru balsam, dms. | lb. | 1.10 - | 1.25 |
| Petrolatum, tech., dark, bbls., Group 3, c.l. | lb. | .021 - | – |
| golden topaz, bbls., c.l. | lb. | .022 - | – |
| l.c.l. | lb. | .026 - | – |
| red, veterinarian, bbls., c.l. | lb. | .024 - | – |
| l.c.l. | lb. | .028 - | – |
| USP, amber, non-ret. dms., c.l. | lb. | .031½- | – |
| l.c.l. | lb. | .04½- | – |
| extra amber, dms., c.l. | lb. | .03¾- | – |
| l.c.l. | lb. | .04¾- | – |
| cream, c.l., dms. | lb. | .05 - | – |
| l.c.l. | lb. | .06½- | – |
| yellow, soft, dms., c.l. | lb. | .03½- | – |
| l.c.l. | lb. | .04½- | – |
| white, Hly. dms., c.l. | lb. | .05¾- | – |
| l.c.l. | lb. | .07¼- | – |
| snow, dms., c.l. | lb. | .05½- | – |
| l.c.l. | lb. | .06 - | – |
| soft, dms., c.l. | lb. | .05½- | – |
| l.c.l. | lb. | .06½- | – |
| Petroleum, [illegible], at wells, California, heavy grades. | bbl. | .98 - | 1.61 |
| Illinois | bbl. | 1.57 - | – |
| Kentucky, Union County. | bbl. | 1.32 - | 1.37 |
| Louisiana-Arkansas | bbl. | .88 - | 1.30 |
| Oklahoma-Kansas | bbl. | .85 - | 1.25 |
| Pennsylvania | bbl. | 1.31 - | 2.00 |
| Texas, Gulf coast | bbl. | 1.06 - | 1.80 |
| North, North-Central. | bbl. | 1.01 - | 1.25 |
| Panhandle | bbl. | 1.16 - | 1.22 |
| West | bbl. | .70 - | 1.12 |
| Wyoming | bbl. | 1.12 - | – |
| Ether, laboratory grade, 20°-60° C, 10-gal. cns., dlvd., E. | gal. | .55 - | – |
| 30°-60°C., dms., c.l., Group 3. | gal. | .16 - | – |
| l.c.l., Group 3. | gal. | .29 - | – |
| 35°-60° C., 10-gal., cns., dlvd., E. | gal. | .55 - | – |
| dms., c.l., Group 3. | gal. | .16 - | – |
| l.c.l., Group 3. | gal. | .29 - | – |
| 40°-75° C, 10-gal., cns., dlvd., E. | gal. | .55 - | – |
| dms., c.l., Group 3. | gal. | .16 - | – |
| l.c.l., Group 3. | gal. | .29 - | – |
| 40°-75° C, 10-gal., cns., dlvd., E. | gal. | .55 - | – |
| dms., c.l., Group 3. | gal. | .16 - | – |
| l.c.l., Group 3. | gal. | .29 - | – |
| Fuel oil,[1] furnace, tanks, at refinery, Arkansas, No. 2. | gal. | .04¼- | – |
| No. 3. | gal. | .04 - | – |
| Bayonne, No. 2, tanks, | gal. | .057 - | – |
| California, heavy | bbl. | 1.10 - | – |
| light | bbl. | 1.20 - | – |
| diesel | gal. | .04 - | – |
| range | gal. | .05 - | – |
| Group 3, No. 1. | gal. | .04¾- | – |
| No. 2, straw. | gal. | .04¼- | – |
| No. 3. | gal. | .04 - | – |
| range | gal. | .04 - | .04½ |
| Kansas, No. 6. | bbl. | 1.02 - | – |
| Oklahoma, No. 1, p.w. | gal. | .04¾- | – |
| No. 1, straw. | gal. | .04¼- | – |
| No. 2, straw. | gal. | .04¼- | – |
| No. 3. | gal. | .04 - | – |
| No. 6. | bbl. | .90 - | .97 |
| range | gal. | .04½- | – |
| Pennsylvania, No. 1. | gal. | .06925- | .0705 |
| No. 2. | gal. | .06375- | .0675 |
| No. 3. | gal. | .06375- | .0675 |
| 36-40 gravity | gal. | .0625- | .0675 |
| bunker C (No. 6), tanks, Albany, N. Y. | bbl. | 1.71 - | – |
| Baltimore, Md. | bbl. | 1.51 - | – |
| Boston, Mass. | bbl. | 1.555 - | – |
| Charleston, S. C. | bbl. | 1.42 - | – |
| Fall River, Mass. | bbl. | 1.525 - | – |
| Jacksonville, Fla. | bbl. | 1.42 - | – |
| New Haven, Conn. | bbl. | 1.525 - | – |
| New York, N. Y. | bbl. | 1.51 - | – |
| Norfolk, Va. | bbl. | 1.47 - | – |
| Philadelphia, Pa. | bbl. | 1.51 - | – |
| Portland, Me. | bbl. | 1.565 - | – |
| Portsmouth, N. H. | bbl. | 1.555 - | – |
| Providence, R. I. | bbl. | 1.525 - | – |
| Savannah, Ga. | bbl. | 1.42 - | – |
| Tiverton, R. I. | bbl. | 1.525 - | – |
| Wilmington, N. C. | bbl. | 1.42 - | – |
| Lacquer diluent, California, 100 l.b.n., 200 e.p., tanks, dlvd. Los Angeles. | gal. | .11 - | – |
| Fort Wells, Wash. | gal. | .12 - | – |
| San Francisco. | gal. | .11½- | – |
| Willbridge, Ore. | gal. | .12 - | – |
| East coast, N. J., N. Y., tanks, refinery. | gal. | .11½- | – |
| Group 3, benzol type, tanks. | gal. | .07⅞- | – |
| toluol type, tanks. | gal. | .07⅞- | – |
| Mineral spirits, California, San Francisco, 168-252 b.r., tanks. | gal. | .10¼- | – |
| 198-290 b.r., tanks. | gal. | .10¼- | – |
| 246-397 b.r., tanks. | gal. | .10½- | – |
| 312-408 b.r., tanks. | gal. | .09 - | – |
| 362-458 b.r., tanks. | gal. | .09 - | – |
| East coast, N. J., N. Y., tanks, refinery. | gal. | .10 - | – |
| Group 3, tanks, refinery. | gal. | .06¼- | .06½ |
| Gulf coast, tanks. | gal. | .06½- | – |
| tankwagons, Baltimore. | gal. | .1240- | – |
| Boston | gal. | .12 - | – |
| Bridgeport, Conn. | gal. | .1430- | – |
| Buffalo | gal. | .1240- | – |
| Camden, N. J. | gal. | .11 - | – |
| Chicago | gal. | .1150- | – |
| Detroit | gal. | .1380- | – |
| Hartford | gal. | .1430- | – |
| Kansas City, Mo. | gal. | .1280- | – |
| Lancaster, Pa. | gal. | .12 - | – |
| Milwaukee | gal. | .1240- | – |
| Minneapolis | gal. | .1220- | – |
| Newark | gal. | .11 - | – |
| New York | gal. | .11 - | – |
| Philadelphia | gal. | .11 - | – |
| Pittsburgh | gal. | .125 - | – |
| Providence | gal. | .13 - | – |
| Rochester | gal. | .1320- | – |
| St. Louis | gal. | .1370- | – |
| Syracuse | gal. | .14 - | – |
| Washington, D. C. | gal. | .135 - | – |
| Wilmington, Del. | gal. | .11 - | – |
| Naphtha, cleaners, California, tanks, San Francisco. | gal. | .12 - | – |
| East coast, N. J., N. Y., tanks, refinery. | gal. | .11 - | – |
| Group 3, tanks, refinery, | gal. | .07⅛- | .07⅛ |

| | | |
|---|---|---|
| Petroleum naphtha, cleaners, tankwagon, Newark....gal. | .12 - | — |
| Bridgeport ....gal. | .1730- | — |
| Chicago ....gal. | .1380- | — |
| Detroit ....gal. | .15 - | — |
| Milwaukee ....gal. | .1440- | — |
| Minneapolis ....gal. | .1420- | — |
| New York....gal. | .12 - | — |
| Philadelphia ....gal. | .125 - | — |
| St. Louis....gal. | .1470- | — |
| high-solvency, No. 8, over 76% arom., tanks..gal. | .225 - | — |
| No. 80, tanks, frt. alld..gal. | .2205- | — |
| No. 40, tanks, Wilmington, Cal..gal. | .13½- | — |
| No. A-60, tanks, Carteret, N. J..gal. | .21¼- | — |
| Cincinnati, Chicago, Detroit..gal. | .23 - | — |
| No. B-90, tanks, all shipping points..gal. | .24½- | — |
| No. F-80, tanks, Carteret, N. J..gal. | .23 - | — |
| V.M.&P. at refinery, California, 46.5 254 i.p.b., 380 e.p., tanks, El Segundo..gal. | .11 - | — |
| Richmond ....gal. | .11½- | — |
| Willbridge, Ore., Pt. Wells, Wash..gal. | .12 - | — |
| 54-77, 190 i.b.p., 310 e.p., Los Angeles....gal. | .10 - | — |
| San Francisco....gal. | .10½- | — |
| Portland, Seattle..gal. | .11 - | — |
| Group 3, tanks....lb. | .07½- | .07½ |
| Gulf Coast (dlvd. New Orleans), tanks..gal. | .06½- | — |
| tankwagon, Boston....gal. | .13 - | — |
| Chicago ....gal. | .1380- | — |
| Detroit ....gal. | .15 - | — |
| Milwaukee ....gal. | .1540- | — |
| Minneapolis ....gal. | .1520- | — |
| Newark (200 gals.)....gal. | .125 - | — |
| New York....gal. | .12 - | — |
| Philadelphia ....gal. | .125 - | — |
| Pittsburgh ....gal. | .12½- | — |
| St. Louis....gal. | .1470- | — |
| Solvent, rubber, at refinery, California, San Francisco. gal. | .25½- | — |
| East Coast, N. J., N. Y., tanks..gal. | .11 - | — |
| Group 3, tanks....gal. | .07½- | .07½ |
| Stoddard (CS 8-33), at refinery:— | | |
| California (f.o.b. San Francisco), tanks..gal. | .11 - | — |
| East Coast, N. J., N. Y. tanks..gal. | .10 - | — |
| Group 3, tanks....gal. | .09½- | — |
| Pennsylvania, western, tanks..gal. | .07¼- | .07½ |
| tankwagon, Baltimore...gal. | .13 - | — |
| Boston ....gal. | .12 - | — |
| Chicago ....gal. | .13½- | — |
| Detroit ....gal. | .1580- | — |
| Milwaukee ....gal. | .1440- | — |
| Minneapolis ....gal. | .1420- | — |
| Newark ....gal. | .11 - | — |
| New York....gal. | .11 - | — |
| Philadelphia ....gal. | .11 - | — |
| Pittsburgh ....gal. | .12½- | — |
| St. Louis....gal. | .1370- | — |
| Syracuse ....gal. | .14 - | — |
| Toluol, tanks, dlvd. E....gal. | .27 - | — |
| Xylol, tanks, dlvd. E....gal. | .26 - | — |
| Sulphonates, 68% sulphonic content, ret. dms., c.l., works.lb. | .09¾- | — |
| c.l., works....lb. | .09¾- | .10¾ |
| tanks, works....lb. | .09¾- | — |
| 80% sulphonic content, ret. dms., c.l., works..lb. | .09¾- | — |
| c.l., works....lb. | .09¾- | .10¾ |
| tanks, works....lb. | .09¾- | — |
| Phenobarbital, cns....lb. | 3.60 - | 3.70 |
| dms., 100 lbs....lb. | 3.50 - | — |
| Phenol, 90-92% (cresol, 8-10%), dms., c.l., works, frt. equald., lb. | .10 - | — |
| l.c.l., same basis....lb. | .10¾- | — |
| tanks, same basis....lb. | .09 - | — |
| 82-84% (cresol, 16-18%), dms., c.l., same basis..lb. | .09¾- | .10¾ |
| l.c.l., same basis....lb. | .10¼- | — |
| tanks, same basis....lb. | .08¾- | .09¾ |
| USP, dms., c.l., same basis. lb. | .10½- | — |
| l.c.l., same basis....lb. | .11¼- | — |
| tanks, same basis....lb. | .09¾- | — |
| Phenolphthalein, USP, bbls., dms., 2,000 lbs..lb. | .85 - | — |
| smaller lots....lb. | .87 - | .92 |
| Yellow, fib. dms., 2,000 lbs..lb. | .80 - | — |
| smaller lots....lb. | .82 - | .87 |
| Phenothiazin, NF, fib. dms., 2,000 lbs..lb. | .49 - | — |
| smaller lots....lb. | .54 - | — |
| Phenylacetaldehyde, solut., 50%, bots..lb. | 2.45 - | 2.80 |
| 100%, bots....lb. | 4.00 - | 5.00 |
| Phenylethyl acetate, dms....lb. | 3.30 - | 3.35 |
| Phenylethylphenyl acetate, bots., lb. | 4.75 - | 4.80 |
| Phenylhydrazin, base, CP, bots.lb. | 4.55 - | — |
| Hydrochloride, CP, bots., works, lb. | 7.10 - | — |
| commercial, kgs., works...lb. | 1.75 - | — |
| Phloroglucinol, CP., fib., dms..lb. | 13.75 - | 14.75 |
| tech., fib. dms....lb. | 12.00 - | 13.00 |
| Phosgene, ton lots, works....lb. | .19 - | — |
| Phosphate, defluorinated (see under D). | | |
| Phosphate rock,[1] Fla., land pebble, unground, run-of-mine, washed, dried, 68%-66% b.p.l., bulk, car at mine, c.l.... long ton. | 2.20 - | — |
| 70%-68%, same basis.. long ton. | 2.60 - | — |
| 72%-70%, b.p.l., same basis..long ton. | 3.20 - | — |
| 75%-74%, b.p.l., same basis..long ton. | 4.20 - | — |
| 77%-76%, b.p.l., same basis..long ton. | 5.20 - | — |
| entirely pebble, 50c. per ton higher than above prices. | | |
| finely ground, 68.5% b.p.l., 30% $P_2O_5$ minimum.... short ton. | 3.15 - | — |
| 68%, basis 31% $P_2O_5$ minimum..short ton. | 3.35 - | — |
| 70%, basis 32% $P_2O_5$ minimum..short ton. | 3.70 - | — |
| Tenn., brown, unground, run-of-mine, 70-68% b.p.l., 5% i. & a.. same basis..long ton. | 5.30 - | — |
| 72%-70% b.p.l., 5½% i. & a., same basis.long ton. | 5.80 - | — |
| refinery, ground, 29% $P_2O_5$, same basis..long ton. | 4.95 - | — |
| 30% $P_2O_5$, same basis.... long ton. | 5.15 - | — |
| 31% $P_2O_5$, same basis.... short ton. | 5.25 - | — |
| 32% $P_2O_5$, same basis.... short ton. | 5.50 - | — |
| 33% $P_2O_5$, same basis.... short ton. | 6.00 - | — |
| Phosphorus, red, amorphous, cs. lb. | .40 - | .44 |
| tins, export....lb. | .55 - | — |
| yellow, cns....lb. | .23 - | .25 |
| dms., c.l....lb. | .14½- | — |
| Oxychloride, dms., c.l....lb. | .10½- | — |
| l.c.l., dms....lb. | .12½- | .15 |
| Pilocarpine hydrochloride, USP, bots., vls..oz. | 3.75 - | 5.10 |
| Nitrate, bots., vls....oz. | 3.65 - | 5.00 |
| Pimento,[2] Jamaica, bgs....lb. | .23 - | .25½ |
| Pinetar, retort, dms., incl., c.l., works..gal. | .31 - | — |
| l.c.l., works, dms. incl., c.l., tanks, dlvd. E....gal. | .32 - | — |
| tanks, dlvd. E....gal. | .27 - | — |
| Pinkroot, bls....lb. | 1.10 - | 1.15 |
| Piperazine hexahydrate, bots..lb. | 16.00 - | — |
| Pitch, burgundy (see B). | | |
| Coaltar, 160° m.p., bbls., c.l., works..ton. | 19.00 - | — |
| l.c.l., works....ton. | 22.00 - | — |
| Cottonseed, dms., works....lb. | .04 - | .06 |
| Hardwood, paper bgs., works.lb. | .03½- | — |
| Linseed, dms....lb. | .05 - | .06½ |
| Petroleum (see Asphaltum, Mexican, Texas). | | |
| Pine, dms....100 lbs. | 6.50 - | — |
| stands, 200 lbs....stand. | 6.00 - | — |
| Soybean, dms., works....lb. | .04 - | .06 |
| Plaster of paris (see Gypsum). | | |
| Podophyllin, dms....lb. | 8.75 - | 9.00 |
| Pokeroot, bls....lb. | .19 - | .20 |
| Polystyrene, plain colors, dms., 30,000 lbs., works, frt. alld. lb. | .32 - | — |
| 20,000 lbs., frt. alld....lb. | .33 - | — |
| smaller lots, frt. alld....lb. | .34 - | .36 |
| Water-clear, polystyrene, 7c. per lb. less than plain colors. | | |
| Pomegranate, root bark, bgs...lb. | .75 - | .76 |
| Poppy flowers, bls....lb. | .60 - | .70 |
| Seed, Canadian, Danish, bgs., lb. | .38½- | .39 |
| Domestic, blue, bgs....lb. | No stocks | |
| Dutch, ....lb. | .39 - | .40 |
| Indian, white, bgs....lb. | No stocks | |
| South American, bgs....lb. | .45 - | .46 |
| Swedish, bgs....lb. | .37½- | .38 |
| Potash abietate....lb. | .08 - | — |
| Arsenate, USP, solut., cbys., cns. ....lb. | .31 - | .33 |
| Arsenite, USP, solut., cbys., djns..lb. | .13 - | .15 |
| Bicarbonate, USP, cryst., gran., bbls., dms..lb. | .10 - | .21 |
| Bichromate,[1] bgs., c.l., works, lb. | .10 - | — |
| l.c.l., works....lb. | .10½- | .10¾ |
| Potash bichromate in bbls. ¼c. higher. | | |
| Borate, gran., bbls., N. Y. or Chi..lb. | .1015- | — |
| Bromide, USP, gran., 500-lb. bbls., dms..lb. | .25 - | — |
| 100-lb. kgs....lb. | .26 - | — |
| Carbonate, cal., bbls., c.l., works..lb. | .06½- | — |
| l.c.l., same basis....lb. | .06¾- | — |
| hydrated, 83-85%, bbls., c.l., works..lb. | .05½- | — |
| dms., l.c.l., same basis..lb. | .05¾- | — |
| USP, gran., bbls., dms....lb. | .14 - | .20 |
| powd., bbls., dms....lbs. | .19 - | .21 |
| Caustic, low-chloride, 90% basis, flake, dms., c.l., works..... 100 lbs. | 9.31 - | — |
| l.c.l., works....100 lbs. | 9.63½- | — |
| 90% basis, liquid, dms., c.l., works..100 lbs. | 8.56 - | — |
| l.c.l., works....100 lbs. | 8.68½- | — |
| tanks, works....100 lbs. | 8.06 - | — |
| solid, dms., c.l., works.. l.c.l., works....100 lbs. | 8.93½- | — |
| Potash caustic, regular, flake, 88-92%, dms., c.l., works.. lb. | .07 - | — |
| l.c.l., works....lb. | .07¼- | .07½ |
| liquid, 45% basis, dms., c.l., works, frt. alld..lb. | .03½- | — |
| l.c.l., same basis....lb. | .03¾- | .03¾ |
| tanks, same basis....lb. | .02¾- | — |
| solid, 88-92%, dms., c.l., works..lb. | .06¼- | — |
| l.c.l. ....lb. | .06½- | .06¾ |
| Chromate, bgs....lb. | .24 - | .28 |
| Chlorate,[1] cryst., kgs., c.l., works..lb. | .11 - | .11¾ |
| l.c.l., works....lb. | .119 - | .13 |
| powd., dms., kgs., c.l., works, lb. | .09¾- | — |
| l.c.l., works....lb. | .119 - | .13 |
| export, 1 to 10 tons, kgs., ex whse..lb. | .16 - | .18 |
| Chloride, tech., cryst., 98%, bgs., kgs..lb. | .06 | Nom. |
| Citrate, USP, gran., bbls., dms., lb. | .35½- | .36½ |
| powd., 3c. per lb. higher. | | |
| Cyanide, dms., works....lb. | .53 - | — |
| Fluoride, bbls....lb. | .34 - | .40 |
| Glycerophosphate, 75% sol., cns., cbys..lb. | 1.65 - | 1.67 |
| dms., 1,000-lb. lots....lb. | 1.50 - | — |
| 100-lb. lots....lb. | 1.60 - | — |
| Guaiacolsulphonate, NF, dms.lb. | 1.65 - | 1.85 |
| Hydroxide, USP, sticks, dms.lb. | .34 - | .36 |
| Hypophosphite, cns....lb. | .72 - | .75 |
| Iodate, bots., 5 lbs....lb. | 3.46 - | — |
| cns., 25 lbs....lb. | 3.35 - | — |
| Iodide, bots., cns....lb. | 1.44 - | 1.48 |
| dms. ....lb. | 1.35 - | 1.38 |
| Manure Salt, 22%, $K_2O$, Carlsbad, N. M..unit-ton. | .20 - | — |
| 20% $K_2O$, same basis..... unit-ton. | .21 - | — |


## A FACT YOU CAN'T OVERLOOK:

# SKELLYSOLVE

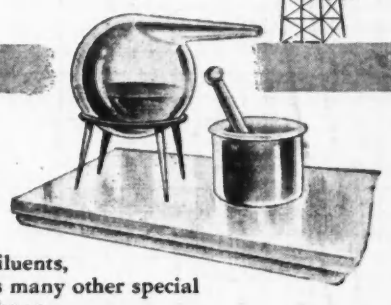
## Still Serves You Best!

"Better than" or "just as good as" are two phrases being used today to describe solvents in competition with Skellysolve.

For your own protection, it is important that you remember why no solvent produced today *can* equal Skellysolve in quality, dependability, or uniformity.

First, Skelly Oil Company pioneered in the making of close cut type naphthas for various industries . . . and Skelly has continued to expand facilities to meet an ever-growing demand. Second, the high quality of Skellysolve is always maintained to meet the highest standards. Third, you can count on Skelly as a dependable, continued source of supply of Skellysolve . . . and you can depend on quick shipment.

That has been the Skelly policy for over 15 years . . . will continue to be in the years ahead.



### HOW SKELLYSOLVE SERVES THE OIL, PAINT, AND DRUG FIELD

There is a Skellysolve naphtha especially suited to your particular requirements . . . one with special advantages for producing top quality paint, varnish, oilcloth, ink, linoleum, and other related products, plus naphthas specially fractionated for all laboratory uses.

Each of these is famed for low evaporation losses, close boiling ranges, purity and uniformity. For example, we supply a full line of V. M. & P. naphthas, mineral spirits, and lacquer diluents, as well as many other special hydrocarbons.

Whatever your particular problem may be, you can rely on the advice and guidance offered by skilled Skellysolve Technical Fieldmen whose job it is to help you employ proper Skellysolve for your operation. For full information on Skellysolve and Skellysolve service, write us today.

SKELLY

# SKELLYSOLVE

SOLVENTS DIVISION, SKELLY OIL COMPANY

SKELLY BLDG., KANSAS CITY, MISSOURI

Potash, metabisulphite, gran., bbls..lb. .19 - .21
powd., bbls.....lb. .25 - —
Muriate, dom., 60-62-63%, $K_2O$, bulk, ex vessel, ports..... unit-ton. .53½- —
granular, 50 - 52% $K_2O$.... unit-ton. .53½- —

Domestic muriate of potash prices, basis f.o.b. Carlsbad, N. M., are 11.2c. per unit of $K_2O$ less than ex vessel price, basis Trona, Cal.; 8c. per unit of $K_2O$ less than ex vessel price at Pacific coast ports.

Nitrate (see Saltpeter).
Oxalate, neutral pure, gran., bbls., dms..lb. .37 - .50
tech. fine gran., bbls., dms. lb. .28 - .31
Perchlorate, kgs., works....lb. .09¾- .11
Permanganate, tech., dms., works..lb. .19¾- .20¼
USP, dms., works.....lb. .20½- .21
Persulphate, dms., c.l., works, lb. .16 - —
l.c.l., same basis.....lb. .20 - —
Prussiate, red, kgs.....lb. .50 - .53
Yellow, bbls.....lb. .16 - .17
Ricinoleate, tech., bbls.....lb. .18 - —
Silicate, glass, bgs., c.l., wks. ton.200.00 - —
l.c.l. .....100 lbs.15.25 - —
solution, 29° Be, ret. drums, c.l., works..100 lbs. 4.25 - —
l.c.l., 5 or more, works. 100 lbs. 5.00 - —
1-4, works.....100 lbs. 5.50 - —
52° Be, ret. dms., c.l., wks. 100 lbs. 4.75 - —
l.c.l., 5 or more, works. 100 lbs. 5.50 - —
1-4, works.....100 lbs. 6.00 - —

Potash silicate, solution, 40.5° Be, ret. dms., c.l., works, 100 lbs. 5.75 - —
l.c.l., 5 or more, works. 100 lbs. 6.50 - —
1-4, works.....100 lbs. 7.00 - —
Sulphate, NF, gran.....lb. .14 - .20
powd., bbls.....lb. .15 - .21
tech., dom., bulk,[5] basis 90-95% $K_2SO_4$, min. 90% ex vessel, Atl. or Gulf ports.. ton.36.25 - —
Sulphocyanide, NF, dms.....lb. .70 - .78
Thiocyanate, bbls.....lb. .62 - .65
kgs. .....lb. .70 - .78
Xanthate, dms., c.l.....lb. .12 - —
Potash-gold cyanide, 41% gold, bots., works..oz.14.20 -14.96
Potash-magnesia sulphate, bulk,[6] min., 40% $K_2SO_4$, 18.56% MgO, ex vessel, ports...ton.26.00 - —
Potash-soda ferricyanide, kgs., works..lb. .40 - .48
Potash-titanium oxalate, bbls., dms..lb. .45 - .50
Prickly ash bark, bls.....lb. .23 - .25
Berries, bgs.....lb. .20 - .21
Prince's pine herb, bls.....lb. .60 - .61
Procaine hydrochloride, cns., 100-lb. lots..lb. 4.00 - —
smaller lots.....lb. 4.25 - 4.75
Propane,[7] industrial grade, tanks, Group 3..gal. .03¾- —
Propyleneglycol, dms., c.l., frt. alld. in E..lb. .15½- —
l.c.l., same basis.....lb. .16½- —
tanks, same basis.....lb. .14½- —
Psyllium seed (see Fleaseed).
Pulsatilla, bls.....lb. .65 - .68
Pumice,[1] grd., fine, bgs., ton lots. lb. .03¾- —
smaller lots.....lb. .03¾- .04

Pumice, grd., coarse, 0½, 1, 1½, 2, 3, bgs., ton lots..lb. .03¾- —
smaller lots.....lb. .03¾- .04½
Chi., ton lots.....lb. .04½- —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed, bgs.....lb. No stocks
Purple lake (see Red).
Putty, com'l, dms.....100 lbs. 3.15 - —
linseed oil, raw, dms....100 lbs. 5.00 - —
refined, dms.....100 lbs. 5.50 - —
standard, dms.....100 lbs. 4.20 - —
Pyrethrum,[1] concentrate, de-waxed, 20% for aerosol bombs, dms., works.....lb. 9.25 - 9.50
liquid (20 to 1), basis 2 grams pyrethrins for 100 cc., dms., regular base, works..gal. 7.15 - —
odorless base, dms., works, gal. 7.25 - —
(30 to 1), basis 3 grams pyrethrins per 100 cc., bbls., works..gal.10.65 - —
Flowers, fine-grd., 0.9% pyrethrins, bbls., works..lb. .33¾- —
powder, 0.5% pyrethrins, bbls., works..lb. .25 - —
Pyridin, denaturing, ret. dms., works, frt. equald..gal. 1.55 - 1.60
refd., 2°, ret. dms., same basis. lb. .45 - .45½
Pyrites, Spanish, c.i.f. Atl. ports. long ton. 8.00 -10.00
Pyrocatechin (see Catechol).
Pyrophyllite, standard, 200 mesh, c.l., bulk, mines..ton.10.00 -11.50
325 mesh, same basis....ton.13.00 -13.90
No. 3, 200 mesh, c.l., mines.ton. 9.50 - —
325 mesh, same basis.....ton.11.50 - —
Pyrophyllite in paper bgs., $1.50 per ton extra.

Pyroxylin, scrap, opaque, amber, cs., works..lb. .17 - —
black, cs., works.....lb. .17 - —
China, white ivory, cs., works..lb. .17 - —
dense, white, cs., works..lb. .17 - —
gray, cs., works.....lb. .17 - —
mixed, mottled, cs., wks.lb. .14 - —
translucent pastels, cs., works..lb. .17 - —
transparent, cs., works.....lb. .19 - —
colors, cs., works.....lb. .17 - —
shavings, amber, cs., works..lb. .17 - —
mixed colors, cs., works...lb. .14 - —
white, cs., works.....lb. .17 - —

## Q

Quassia chips, bls.....lb. .06 - .09
Quebracho extract,[1] solid, 63%, bgs., c.l., ex dock, in bond, based on ocean freight, $12; insurance $1 per ton. Any difference for buyers account..lb. .05¾- .06¾
clarified, 64%, bgs., c.l., same basis..lb. .06½- .06¾
dissolved, 55%, tan., bbls., works..lb. .04575- .0605
tanks, works.....lb. .04075- —
ground, 70%, bgs., c.l.....lb. .069 - —
l.c.l., bgs.....lb. .0915- —
Queen of the meadow root, bgs. lb. .11 - .12
Quercitron, crystals, bbls.....lb. .26 - —
extract, bbls., No. 1.....lb. .10 - —
No. 2.....lb. .09½- —
No. 3.....lb. .09 - —
solid, bxs.....lb. .18½- —
Quicksilver, flasks (76 lbs. net).. flask.102.00 -107.00
Quince seed, bgs.....lb. 1.30 - 1.75
Quinidine,[8] NF V, cryst., cns.oz. No stocks
powd., precip., cns.....oz. No stocks
Sulphate, USP, cns.....oz. No stocks
Quinine,[8] NF, cns., 100 ozs...oz. No stocks
Acetate, cns., 100 ozs.....oz. No stocks
Arsenate, cns., 100 ozs.....oz. No stocks
Arsenite, cns., 100 ozs.....oz. No stocks
Bisulphate, USP, cns., 100 ozs. oz. No stocks
Dihydrobromide, bots., 50 ozs.. oz. No stocks
Citrate, cns., 100 ozs.....oz. No stocks
Ethylcarbonate, USP, cns., 100 ozs..oz. No stocks
Ferrocyanide, cns., 100 ozs.. oz. No stocks
Formate, cns., 100 ozs.....oz. No stocks
Glycerophosphate, cns., 100 ozs. oz. No stocks
Hydrochloride, USP, cns., 100 ozs..oz. .89½- —
Hydrochlorosulphate, cns., 100 ozs..oz. No stocks
Hydroiodide, cns., 100 ozs..oz. No stocks
Hypophosphite, cns., 100 ozs.oz. No stocks
Phosphate, NF, cns., 100 ozs.. oz. No stocks
Salicylate, NF, cns., 100 ozs.oz. No stocks
Sulphate, USP, cns., 100 ozs.oz. .80½- —
Sulphocarbolate, cns., 100 ozs.. oz. No stocks
Tannate, USP X, cns., 100 ozs. oz. No stocks
Tartrate, cns., 100 ozs.....oz. No stocks
Valerate, NF IV, 100 ozs...oz. No stocks
Quinine-urea hydrochloride,[8] USP, cns..oz. No stocks
Quinoline, dms., c.l., works...lb. .24½- .50

## R

R salt, dry, bbls.....lb. .65 - —
paste, dms.....lb. .52 - —
Raspberries, dried, bls.....lb. 1.75 - 1.80
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis...lb. 1.10 - 1.90
Prices ½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.); Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1½c.) (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph: 1.6c. per lb. higher dlvd. Pacific Coast prices equaled with Chicago dlvd. Denver, Pueblo, Salt Lake City, Wichita.
Cadmium lithopone, deep shade, bbls., E. Rockies..lb. 1.00 - —
light shade, bbls., same basis..lb. .85 - —
medium shades, bbls., same basis..lb. .80 - —
Red cadmium lithopone, all shades, in smaller pkgs., 5c. per lb. higher.
Selenide, dark, bbls., works. lb. 2.50 - —
light, same basis.....lb. 2.20 - —
Orange (see Orange).
Carmine, No. 40, dms., 100-lb. lots, works..lb. 4.60 - —
smaller lots, same basis..lb. 4.75 - 5.25
Crocus Martis (see Red, purple oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works....lb. 1.25 - —
Firetoner, dom., bbls., works.lb. .25 - —
Indian, dom., pure, bbls., Bethlehem, Easton, E. St. Louis, N. Y..lb. .09½- —
80-85%, bbls., same basis.lb. .09¾- —
imp., English, all shades..lb. .12 - —
Iron oxide, pure, bbls.....lb. .09 - .09¾
reduced, 85% copperas oxide, bbls., l.c.l., Bethlehem, Pa.; Copley, O.; Easton, Pa., and E. St. Louis..lb. .08¾- —
50% copperas oxide, bbls., same basis..lb. .085 - .094
Lacquer, maroon, bbls., wks lb. 1.25 - —
Lake C toner, alizarin, bbls., works..lb. .90 - —
Lithol toner, alizarin, lake, bbls., works..lb. .60 - —
Pink, bbls., works.....lb. .20 - .25
Rose lake, bbls., works...lb. .25 - .30
Lithol-rubin toner, alizarin lake, bbls., works..lb. 1.10 - —
Maroon, alizarin lake 25% kgs., works..lb. .40 - —
Cadmium, bbls., works....lb. 1.10 - —
deep, bbls., same basis..lb. 1.20 - —
Maroon, in smaller pkgs., 5c. per lb. higher.
Mercury oxide, tech., bbls., 10,000 lbs., works..lb. 2.60 - —
smaller lots, works.....lb. 2.62 - —
Metallic, bbls., works.....lb. .02 - —
Oxide (see Red, iron oxide).
Para toner, concent., alizarin lake, kgs., works..lb. .70 - —
Persian (see Orange).
Phloxin toner (see Red, eosin toner).
Phosphotungstic, rhodamine, Y, kgs., works..lb. 4.15 - —
Purple lake, kgs.....lb. 1.00 - —
Scarlet ink toner, kgs., works lb. .35 Nom
Spanish oxide, grade 1, c.l., bbls..lb. .04¾- .07¾


*Announcing*

# KENDEX 5430

## A THERMOPLASTIC HYDROCARBON RESIN

WITH LOW MOISTURE VAPOR TRANSMISSION AND EXCELLENT STABILITY, ADHESIVE AND ELECTRICAL RESISTANCE PROPERTIES

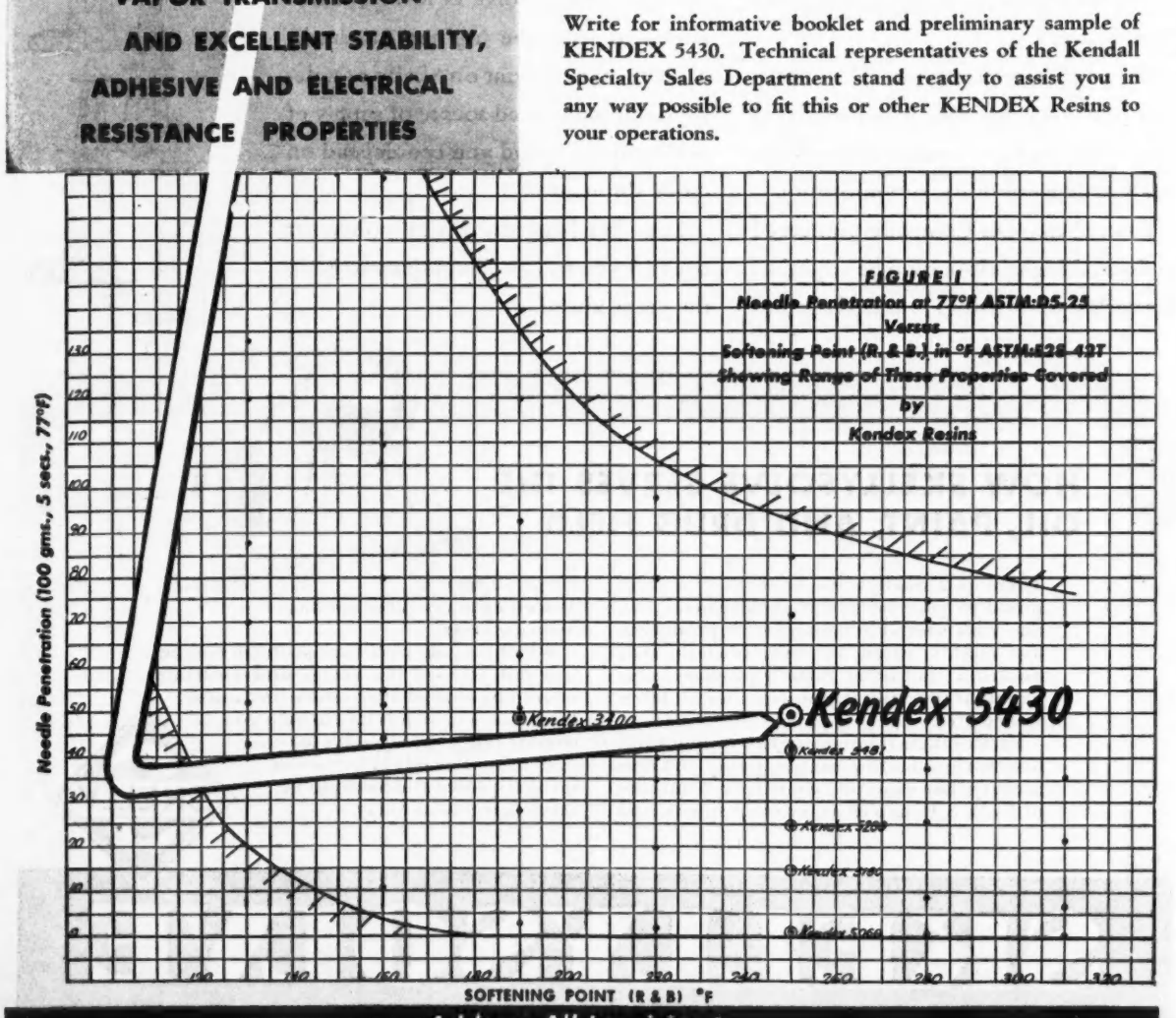
Each point on the chart below represents a KENDEX Resin with properties already determined from commercial or laboratory use.

Note KENDEX 5430, for example. It's a tough, rubber-like, non-staining, resilient resin widely used in the war packaging program as a paper-to-paper and paper-to-foil laminant.

Low temperature pliability, resistance to mechanical shock, lack of odor . . . chemical inertness, heat stability and resistance to cold flow suggest its use as a laminant, adhesive or binder . . . as a tank or vat liner where corrosive liquids are involved . . . as an expansion joint filler, moisture vapor barrier, rubber extender and plasticizer or mastic binder.

Other KENDEX Resins range from hard, brittle and mar-resistant to waxy, tacky substances. All are black in color.

Write for informative booklet and preliminary sample of KENDEX 5430. Technical representatives of the Kendall Specialty Sales Department stand ready to assist you in any way possible to fit this or other KENDEX Resins to your operations.




Address All Inquiries to
SPECIALTY SALES DEPARTMENT
KENDALL REFINING COMPANY BRADFORD, PENNSYLVANIA

Red, toluidin toner, alizarin lake, kgs., works..lb. 1.05 - —
MNPT maroon toner, kgs., works..lb. 3.25 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., E. St. L.....lb. .11 - —
Venetian, 5%, bbls., wks....lb. .0220- —
10%, bbls., works.....lb. .0245- —
15%, bbls., works.....lb. .0265- —
20%, bbls., works.....lb. .02¾- —
25%, bbls., works.....lb. .03 - —
30%, bbls., works.....lb. .03¼- —
35%, bbls., works.....lb. .0360- —
40%, bbls., works.....lb. .04 - —
Vermillion, Amer., bbls.....lb. .25 - .40
Quicksilver, bbls.....lb. 2.50 - 2.65
Red precipitate, NF, powd., fib. dms..lb. 2.77 - 2.79
Red saunders wood grd., bbls.lb. .35 - —
Resorcinol, tech., dms., works.lb. .64 - .74
USP. cryst., dms., frt. alld..lb. 1.60 - —
Rhatany root, bgs.....lb. .15 - .16
Rhubarb whole, cs.....lb. .42 - .45
powd., bbls.....lb. .46 - .48
Riboflavin, bots.....kilo.200.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif., seller's option. lb. .79 - —
Rochelle salt, gran. powd., bbls., 5,000 lbs., 1 ship't..lb. .33½- —
smaller lots.....lb. .39 - .42
Rose flowers, pale, bls.....lb. .45 - .50
Rosemary flowers, bls.....lb. 1.55 - 1.65
Leaves, Portuguese, bls.....lb. .11 - .11½
Spanish, bls.....lb. .13½- .14½
Rosin, gum,[1,7] —
B, dms., c.l.....100 lbs. 6.68 - —
D, dms., c.l.....100 lbs. 6.75 - —
E, dms., c.l.....100 lbs. 7.28 - —
F, dms., c.l.....100 lbs. 7.38 - —
G, dms., c.l.....100 lbs. 7.42 - —
H, dms., c.l.....100 lbs. 7.44 - —
I, dms., c.l.....100 lbs. 7.44 - —
K, dms., c.l.....100 lbs. 7.46 - —
M, dms., c.l.....100 lbs. 7.50 - —
N, dms., c.l.....100 lbs. 7.66 - —
W.G., dms., c.l.....100 lbs. 7.91 - —
W.W., dms., c.l.....100 lbs. 8.16 - —
X, dms., c.l.....100 lbs. 618 - —
Wood,[1,7] B (resin), dms., c.l., works..100 lbs. 3.00 - —
FF, dms., c.l., works.100 lbs. 4.50 - —
G, H, I, dms., c.l., works.. 100 lbs 4.95 - —
K, dms., c.l., works..100 lbs. 5.00 - —
M, dms., c.l., works..100 lbs. 5.05 - —
N, dms., c.l., works..100 lbs. 5.15 - —
WG, dms., c.l., works.100 lbs. 5.25 - —
WW, X, dms., c.l., works... 100 lbs. 5.40 - —
Rotenone,[1] bbls., works.....lb.10.90 -12.50
extract, liq., dms., works.... per unit. 1.05 - —
powder (see Cube root).
Rottenstone,[1] bgs., c.l., mines.. ton.25.50 - —
l.c.l., mines.....ton.27.50 - —
Rue, bls.....lb. .42 - .50

## S

Sabadilla seed, powd., bbls....lb. .45 - .48
Saccharin,[1] soluble and insoluble, 1,000 lbs. and up..lb. 1.30 - 1.35
smaller lots.....lb. 1.40 - 1.60
Saffron, Mexican, bls.....lb. 1.20 - 1.30
Persian, tins.....lb.45.00 - —
Spanish, NF, tins.....lb.38.00 -40.00
Safrol, cns.....lb. .90 - .92
Sage, Calif., leucophylla, bgs., Pacific coast..lb. .20 - .21
Dalmatian-type, No. 1, bgs., Pacific coast..lb. .95 - .98
Cyprus, good, bls.....lb. .24 - .24½
fair, bls., futures.....lb. .18½- .19
Greek, bls.....lb. .28 - .30
Palestine, bls.....lb. .14 - .16½
Spanish, bls.....lb. .15 - .15½
Washington, Dalmatian-type, bls..lb. .60 Nom.
Sage flour, bgs.....lb. .05 - .05½
Salicin, bots., 5 lbs.....lb. No stocks
cns., 25 lbs.....lb. No stocks
Saligenin, dms.....lb.15.00 -20.00
Salol, gran., bbls., kgs.....lb. .90 - —
fib. dms.....lb. .92 - .95
Powdered salol, 10c. higher.
Salt, rock, bgs., c.l.....ton.14.20 - —
l.c.l., bgs.....ton.17.20 -18.80
vacuum, common, fine, bgs., c.l..ton.15.70 - —
l.c.l. .....ton.19.60 -20.25
Saltcake, dom., bulk, works..ton.15.00 - —
Chrome (see Chrome cake).
Saltpeter, dbl. ref., gran., bbls., 10 ton lots..100 lbs. 8.20 - —
smaller lots.....100 lbs. 8.35 - 8.60
powd., bbls., 10-20 ton lots.. 100 lbs. 9.20 - —
smaller lots.....100 lbs. 9.35 - 9.60
Sanguinarine nitrate, bots.....oz. 9.75 - —
Santonin, cryst., powd., cns.kilo.170.00-185.00
Saponin, No. 1, cns.....lb. 1.75 - 1.90
No. 2, cns.....lb. 1.40 - —
Sarsaparilla root, dom., bls..lb. .25 - .27
Honduras, bls.....lb. .45 - .47
Mexican, bls.....lb. .22 - .23
Sassafras bark, grd., bls.....lb. .40 - .45
select, bls.....lb. .60 - .65
Savory, Calif., bls.....lb. .75 - .79
Spanish, bls.....lb. .23½- .25
Saw palmetto berries, bgs....lb. .20 - .21
Scammony resin, lump, cns...lb. 1.30 - —
powd., cns.....lb. 1.35 - —
Root, bgs.....lb. .09 - .10
Schaeffer's salt, bgs.....lb. .44 - —
Seidlitz mixture, bbls., 5,000 lbs., 1 shipment..lb. .30¾- —
smaller lots.....lb. .31¼- —
kegs, 5,000 lbs., 1 shipm't..lb. .31¼- —
smaller lots.....lb. .31¾- —
Selenium, pwd., cns., 10 lb. lots.. lb. 1.65 - —
cs., 1,000 lb. lots.....lb. 1.75 - —
Senega root, bls.....lb. 2.45 - 2.50
Senna, Alex., half-leaf, bls....lb. .19 - .22
siftings, bgs.....lb. .13 - .19
Tinnevelly, No. 1, bls.....lb. .17 - .17½
2, bls.....lb. .15 - .15½
3, bls.....lb. .14 - .15
powd., bbls., bgs.....lb. .15 - .17
Pods, bls.....lb. .09 - .10
Serpentaria root, bls.....lb. 1.50 - 1.60
Shellac,[1] bleached, bonedry, bbls., 1,000-lb. lots..lb. .42¾- —
Boston .....lb. .42½- —
Chicago .....lb. .44 - —
Pacific coast.....lb. .46 - —
refined, bbls., 1,500-lb. lot. lb. .42½- —
Boston .....lb. .42½- —
Chicago .....lb. .50 - —
Pacific coast.....lb. .52 - —

Bonedry shellac sales of less than 1,500 lbs., at following additions to maximum prices: (1) packed in bgs., ¼c. per lb. (2) bbls., 1c. more; (3) kgs., 5c. more.

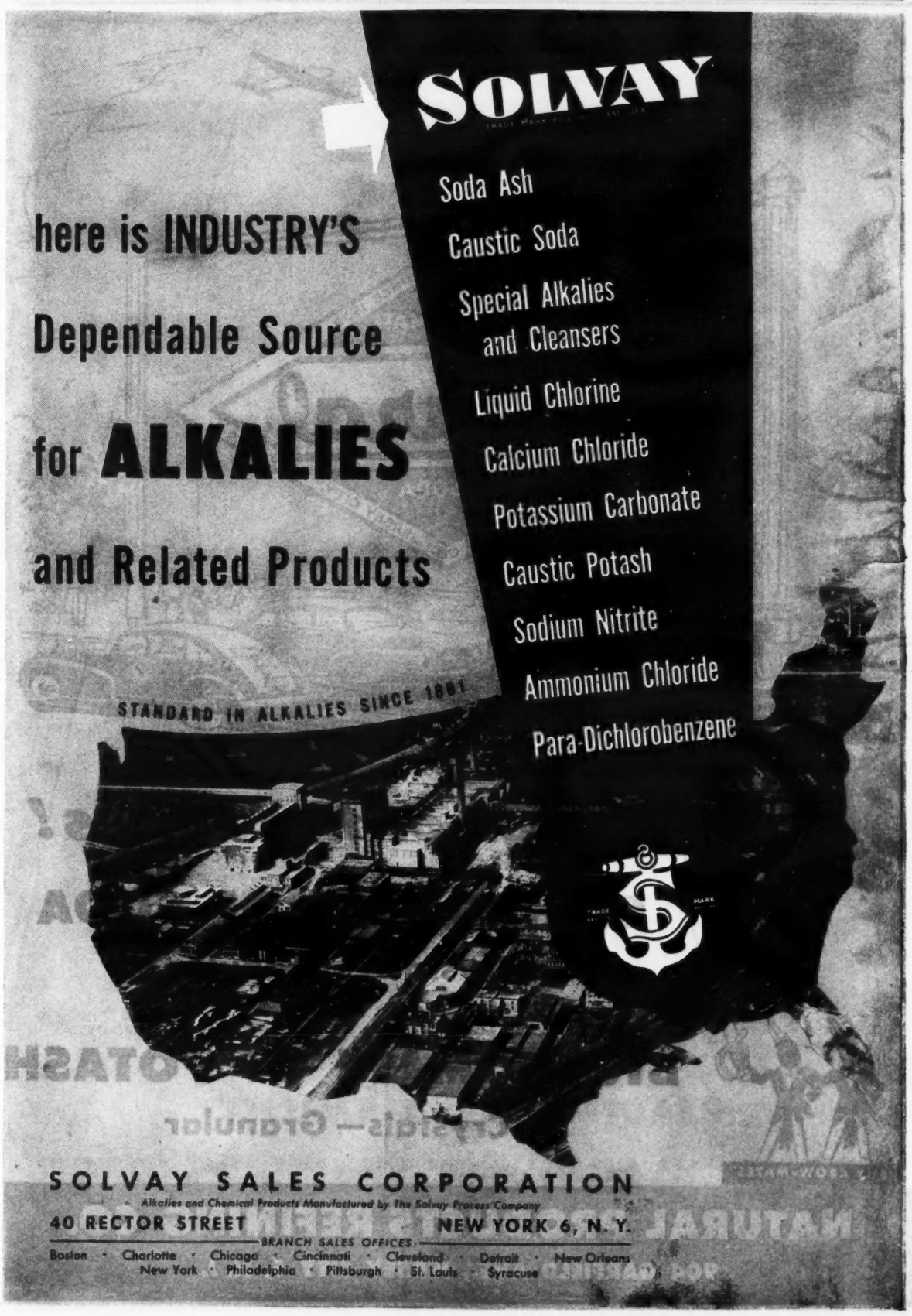
Shellac, D. C., V.S.O., Diamond 1, 100 bgs..lb. .4660- —
Garnet, 100 bgs.....lb. .3890- —
Superfine, 100 bgs., Boston, N. Y..lb. .3660- —
Chicago .....lb. .3710- —
Pacific coast.....lb. .3960- —
TN, 100 bgs., Boston, N. Y.lb. .3550- —
Chicago .....lb. .3600- —
Pacific coast.....lb. .3808- —

Shellac in cs., 2c. higher. Shellac sales 1 bg. or 1 cs., 5c. additional; 1 to 9 bgs. or cs., 3c. more; 10 to 99 bgs., cs., 1c. more.

Silica, amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works.. ton 17.00 - —
l.c.l., works.....ton.20.00 - —
400 mesh, bgs., c.l., works.. ton.15.00 - —
l.c.l., works.....ton.19.00 -20.00
wet-grd., 325 mesh, bgs., c.l., works..ton.15.00 - —
l.c.l., same basis....ton.21.00 - —
400 mesh, bgs., c.l., works. ton.30.60 - —
l.c.l., works.....ton.35.00 -38.00
96%-98%, 325 mesh, bgs., c.l., wks..ton.20.00 - —
l.c.l., works.....ton.21.50 -23.00
99%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works.....ton.22.00 -25.00
hard-quartz, 99¼%, 325 mesh, bgs., c.l., works.....ton.15.50 - —
l.c.l., works.....ton.18.50 - —
140 mesh, bgs., c.l., works, ton.11.00 - —
l.c.l., works.....ton.16.00 - —
Silicon tetrachloride, tech., dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .15½- .27
Silver bullion.....oz. .71111- —
Cyanide, cns., 100 ozs.....oz. .41½- —
Nitrate, cns., 100 ozs., bots., 2,500-oz. lots..oz. .47 - —
1,000-oz. lots.....oz. .47¾- —
smaller lots.....oz. .47½- .47¾
Neucleinate, USP, bots., dms.. oz. .308 - .358
Proteinate, USP, bots., dms.oz. .288 - .338
Simarubra bark, bls.....lb. .55 - .60
Skullcap, Eastern, bls.....lb. .60 - .65
Skunk cabbage root, bls.....lb. .25 - .30
Slate flour, bgs., c.l., works.ton.11.00 -12.00
l.c.l., works.....ton.12.00 -13.00
Sloe berries, bgs.....lb. .40 - .41
Smalt, black, ctns.....lb. .05 - .06
Blue, ctns.....lb. .07 - .08¼
Snakeroot, Canada, bls.....lb. .80 - .85
Soapbark, bls.....lb. .29 - .30
crushed, bls., bbls.....lb. .34 - .35
cut, dom., bls., bbls.....lb. .34 - .35
imp., bbls.....lb No stocks
powd., bbls.....lb. .32 - .33
Soda acetate, anhyd., dms., divd. lb. .08½- .10
NF, cryst., bbls., kgs.....lb. .14 - .16
tech., 60%, l.c.l., divd.....lb. .05½- .06
Alginate, refined, water-soluble, bbls., works..lb. .79 - —
semi-refined, bbls., works..lb. .42 - —
white, powd., dms.....lb. 1.50 - 1.60
Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.50 - —
l.c.l., works.....100 lbs. 8.40 - —
other uses, bgs., c.l., works, 100 lbs. 7.00 - —
l.c.l. .....100 lbs. 7.50 - 8.00
Antimoniate, bbls., divd.....lb. 16 - .16½
Arsenate, dms., dealers, c.l., works..lb. .09¼- —
l.c.l., works.....lb. .10¾- .11¼
Soda arsenite, gray, dms., dealers, c.l., works..lb. .08¼- —
l.c.l., works.....lb. .09 - .10

Soda arsenite, gray, ¾c. higher in Chi.; 2c. higher in Houston, Tex., and Palo Alto, Calif.

Ash, dense, 58%, bgs., c.l., works..100 lbs. 1.15 - —
l.c.l., divd., zone 1.... 100 lbs. 2.18 - —
2 .....100 lbs. 2.33 - —
3 .....100 lbs. 2.58 - —
4 .....100 lbs. 2.98 - —
bbls., c.l., works, Zone 1.. 100 lbs. 1.35 - —
l.c.l., zone 1.....100 lbs. 1.85 - —
2 .....100 lbs. 2.50 - —
3 .....100 lbs. 2.75 - —
4 .....100 lbs. 3.15 - —
bulk, c.l., works...100 lbs. .95 - —
extra light, 58%, bgs., c.l. 100 lbs. 1.18 - —
l.c.l., divd., zone 1..... 100 lbs. 2.13 - —
2 .....100 lbs. 2.28 - —
3 .....100 lbs. 2.53 - —
4 .....100 lbs. 2.98 - —
bbls., c.l., works..100 lbs. 1.45 - —
l.c.l., divd., zone 1..... 100 lbs. 2.45 - —
2 .....100 lbs. 2.60 - —
3 .....100 lbs. 2.85 - —
4 .....100 lbs. 3.25 - —
bulk, c.l.....100 lbs. .90 - —
light, 58%, bgs., c.l., works. 100 lbs. 1.05 - 1.13
l.c.l., divd., zone 1..... 100 lbs. 2.13 - —
2 .....100 lbs. 2.28 - —
3 .....100 lbs. 2.53 - —
4 .....100 lbs. 2.98 - —



Soda ash, light 58%, bbls., c.l., works..100 lbs. 1.86 - —
l.c.l., dlvd., zone 1..... 100 lbs. 2.35 - —
2 ..... 100 lbs. 2.50 - —
3 ..... 100 lbs. 2.75 - —
4 ..... 100 lbs. 3.15 - —
bulk, c.l..... 100 lbs. .90 - —
Soda ash sales zones are:—(1) All States E. of Miss. R. and N. of south bound. of Ky. and Va.; also Ala., La., and Miss. S. of 31°, Tex. E. of 100°, S. of 31° Fla. also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark., E. of 93° Ga., Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb. E. of 96°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La., and Miss. No. of 31°; (3) Ark. W. of 93°, Kans., Neb., W. of 96°, N. D., Okla. S. D., Tex. W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo. Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

Benzoate, tech., bbls., 2 tons or more..lb. .39 - —
smaller lots..... lb. .40 - .41
USP, dms., 2 tons or more..lb. .46 - —
smaller lots..... lb. .47 - .52
Bicarbonate, tech., bgs., c.l., works..100 lbs. 1.55 - —
l.c.l., works..... 100 lbs. 1.90 - —
USP, gran., bgs., c.l., works, 100 lbs. 2.10 - —
l.c.l. ..... 100 lbs. 2.45 - —
Bichromate,[1] bgs., c.l., works, lb. .07¾- —
l.c.l., works..... lb. .07¾- .08¼
Soda bichromate, in bbls. ½c. higher.
Bifluoride, bbls., c.l., frt. alld. E..lb. 11¼ —
l.c.l., same basis..... lb 12 - .14
kgs., same basis..... lb. .12¾- .14
Bisulphite, powd., bbls., c.l., works..100 lbs. 3.00 - 3.10
l.c.l., works..... 100 lbs. 3.50 - 3.60

Soda bisulphite, solut., 32°, bbls., c.l., works..100 lbs. 1.30 - —
l.c.l., works..... 100 lbs. 1.55 - —
30°, bbls., c.l., works..100 lbs. 1.35 - —
l.c.l., works..... 100 lbs. 1.60 - —
35°, bbls. c.l., works..100 lbs. 1.40 - —
l.c.l., works..... 100 lbs. 1.65 - —
40°, bbls., c.l., works..100 lbs. 1.55 - —
l.c.l., works..... 100 lbs. 1.80 - —
Bromide, USP, gran., bbls., 500 lbs., works..lb. .25 - —
fiber drms., 100 lbs., works, lb. .26 - —
Cacodylate, bots., drms..... lb. 9.00 -12.00
Carbonate (see Soda ash, Soda Soda sal). monohydrate
Caustic, flake, powd., 76%, drms., c.l., works..100 lbs. 2.70 - —
l.c.l., Zone 1, dlvd..100 lbs. 3.55 - —
2, dlvd..... 100 lbs. 3.70 - 3.95
3, dlvd..... 100 lbs. 3.95 - 4.20
4, dlvd..... 100 lbs. 4.35 - 4.70
liquid, 47-49%, buyer's tanks, works..100 lbs. 1.92½- —
seller's tanks, works, 100 lbs. 1.95 - —
70%, buyer's tanks, works, 100 lbs. 1.97½- —
seller's tanks, works, 100 lbs. 2.00 - —
solid, 76%, drms., c.l., works, 100 lbs. 2.30 - —
l.c.l., Zone 1, dlvd, 100 lbs. 3.15 - —
2, dlvd..... 100 lbs. 3.30 - —
3, dlvd..... 100 lbs. 3.55 - —
4, dlvd..... 100 lbs. 3.95 - —
Caustic soda zones are same as soda ash.
Chlorate, cryst., kgs., c.l., works..lb. .06¼- —
l.c.l., works..... lb. .06½- —
powd., kgs., c.l., works....lb. .06½- —
l.c.l., works..... lb. .07 - .07½

Soda chloride (see Salt).
Chromate, 1,[5] bbls., cks., c.l., works, frt. equald..lb. .09¼- —
l.c.l., works, frt. equal..lb. .09½- .09¾
Soda chromate in bgs. is ¼c. lower.
Citrate, USP VIII, bbls..... lb. .18½- —
drms. ..... lb. .19½- .22½
USP XII, gran., bbls..... lb. .24 - —
drms. ..... lb. .25 - .30
powd., bbls..... lb. .24½- —
drms. ..... lb. .25½- .29½
Cyanide, 96-98%, drms..... lb. .14½- .15
Diacetate, 33-35% acidity, bbls., dlvd..lb. .09½- .10½
anhydrous, drms., dlvd..... lb. .12½- —
Fluoride, white, 96%, bbls., c.l., works..lb. .07 - —
l.c.l., works..... lb. .08 - —
95%, bbls., c.l., works..lb. .07¼- —
l.c.l., works..... lb. .08¼- —
Soda fluoride prices at Los Angeles are f.a.s. works.
Formate, bgs., c.l., works...lb. .0655- —
l.c.l., works..... lb. .068 - —
Glutamate, monobasic, kgs..lb. 1.04 - 1.06
Glycerophosphate, NF, crys., bbls..100 lbs. 1.25 - —
drms. ..... lb. 1.40 - —
powder, 5c. higher.
solution, 50%, cbys., cns...lb. .82 - .90
Hydrosulphite, drms., c.l., frt. alld..lb. .16¾- —
l.c.l., frt. alld..... lb. .18 - —
Hydroxide, USP, sticks, drms.lb. .24 - .26
tech. (see Soda caustic).
Hypophosphite, NF, cns.....lb. .67 - .70
Hyposulphite, crys., bgs., c.l., works, frt. equald..100 lbs. 2.25 - —
l.c.l., same basis...100 lbs 2.50 - —
pea, cryst., bgs., c.l., works, 100 lbs 2.60 - —
Soda, hyposulphite, crystals, in bbls., 20c. higher; pea crystals, drms., 50c. higher.
USP, cryst., bbls..... lb. .10 - .12

Soda iodate, drms., jars..... lb. 5.40 - 5.45
Iodide, bots..... lb. 2.53 - 2.67
drms., jars..... lb. 2.42 - —
Mandelate, drms..... lb. 3.25 - 3.35
Metaborate, gran., bbls., c.l., dlvd..lb. .0485- —
l.c.l., N. Y., or Chi....lb. .051 - —
bgs, c.l., dlvd..... lb .0435- —
l.c.l., N. Y., or Chi....lb. .046 - —
Metanilate, bgs..... lb. .40 - —
Metasilicate, anhyd., drms., c.l., works, frt. equald.... 100 lbs. 4.00 - —
l.c.l., same basis ..100 lbs. 4.90 - 5.30
gran., bbls., c.l. works, frt. equald..100 lbs. 2.50 - —
l.c.l., dlvd..... 100 lbs. 3.30 - 3.55
Methylate, bots., works..... lb. 1.00 - —
cns., works..... lb. .55 - .60
drms., works..... lb. .45 - .60
Molydbate,[1,6] anhyd., kgs., works..lb. .47 - —
Monohydrate, bgs., c.l..100 lbs. 2.00 - —
works ..... 100 lbs. 2.45 - —
Naphthionate, bbls..... lb. .50 - —
Nitrate, crude, dom., 100-lb. bgs., c.l., works..ton.30.05 - —
bulk, c.l., works..... ton.27.00 - —
refd, gran., bbls., 10 tons.. 100 lbs. 3.60 - —
smaller lots.....100 lbs. 3.75 - 4.00
Imp., 100-lb. bgs., c.l., Atl., Gulf, Pac. whse..ton.33.00 - —
200-lb. bgs., same basis, ton.32.40 - —
bulk, same basis..... ton.30.00 - —
Nitrite, 96-98%, bbls., c.l., works, frt. equald..lb. .06¾- —
west coast ports..160 lbs. 8.00 - 8.05
l.c.l., dlvd..... 100 lbs. 8.90 -11.90
Orthosilicate, anhyd., drms., c.l., works, frt. equald.. 100 lbs. 4.50 - —
l.c.l., same basis..100 lbs. 5.45 - 5.80
flake, drms., c.l, works100 lbs. 3.10 - —
l.c.l., dlvd..... 100 lbs. 4.30 - 4.55
Oxalate, neut., bgs., works..lb. .10 - —
Pantothenate, dextrorotary, 100-gram bots..per gram. .10 - —
Pentachlorophenate, briquets, bgs., works, frt. equald..lb. .17 - .30
powd., bgs., c.l, works, frt. equald..lb. .16 - .16½
l.c.l., works, frt. equald.lb. .17 - —
kgs., l.c.l., works, frt. equald..lb. .19 - —
Perborate, NF, bbls., c.l., wks. lb. .14¾- —
l.c.l., works..... lb. .15½- —
Peroxide, drms., c.l., dlvd., E. of Miss..lb. .14 - —
smaller lots..... lb. .17 - —
Phosphate, dibasic, tech., anhyd., bgs., c.l., works, 100 lbs. 6.00 - 6.20
l.c.l., works....100 lbs. 6.40 - 6.75
cryst., bgs., c.l., works.. 100 lbs. 2.55 - 2.70
l.c.l., works....100 lbs. 2.95 - 3.45
USP XII, dried, bbls., drms., works..lb. .150 - —
monobasic, anhydrous, bgs., c.l., works..100 lbs. 7.25 - 8.35
l.c.l., works.....100 lbs 7.95 - 9.00
tribasic, anhydrous, bgs., c.l., works, frt. equald..100 lbs. 6.00 - 6.65
l.c.l., same basis.100 lbs. 6.50 - 7.00
cryst., bgs., c.l., works.... 100 lbs. 2.70 - —
l.c.l., same basis..100 lbs. 3.10 - —
kgs., c.l., works....100 lbs. 3.40 - —
l.c.l., works.....100 lbs. 3.80 - —
Soda phosphate in bbls. 20c. higher.
USP (see Sodium phosphate, dibasic).
Prussiate, yellow, bgs.....lb. .10¾- —
bbls. ..... lb. .11 - —
Pyrophosphate, ferric, drms., 10,000 lbs., works..lb. .22 - —
smaller lots, works.....lb. .22½- —
tetra-basic, anhydrous, bgs., c.l., works, frt. equald.. 100 lbs. 5.25 - —
l.c.l., same basis.100 lbs. 5.40 - 5.75
Ricinoleate, tech., bbls..... lb. .12 - —
Sal, bgs..... 100 lbs. 1.35 - —
works ..... 100 lbs. 1.10 - —
bbls. ..... 100 lbs. 1.40 - —
works ..... 100 lbs. 1.20 - —
Salicylate, drms..... lb. .52 - .54
Sesquicarbonate, bgs., c.l., wks. 100 lbs. 1.50 - —
bbls., c.l., works..... 100 lbs. 1.70 - —
l.c.l., zone 1, dlvd.... 100 lbs. 2.70 - —
2, dlvd..... 100 lbs. 2.85 - —
3, dlvd..... 100 lbs. 3.10 - —
4, dlvd..... 100 lbs. 3.50 - —
Soda sesquicarbonate l.c.l. price zones are same as those for soda ash.
Sesquisilicate, drms., c.l., works, 100 lbs. 3.05 - —
l.c.l., dlvd..... 100 lbs. 4.05 - 4.30
Silicate, 40°, turbid, spot, drms., c.l., works..100 lbs. .80 - —
l.c.l., works.....100 lbs. 1.05 - 1.20
tanks, works..... ton.18.00 - —
52°, drms., c.l., works..100 lbs. 1.40 - —
l.c.l., works.....100 lbs. 1.65 - 1.80
tanks, works..... ton.25.00 - —
Silicofluoride, bbls., c.l., works. lb. .06½- .07
l.c.l., works..... lb. .08 - .10
Stannate, drms., works, frt. alld. E..lb. .32½- .36½
Stearate, bbls., works..... lb. .19 - .24
Sulphate, NF, dried, powd., bbls..lb. .07 - .07¼
tech., anhyd., bgs., c.l., wks. 100 lbs. 1.70 - —
l.c.l., works.....100 lbs. 1.95 - 2.20
cryst. (see Glauber's salt).
USP, cryst., gran., bbls.....lb. .07 - .10
Sulphide, cryst., bbls., c.l., works..100 lbs. 2.40 - —
l.c.l., dlvd..... 100 lbs. 2.90 - 3.10
solid, bbls., c.l., works.100 lbs. 3.15 - —
l.c.l., dlvd..... 100 lbs. 3.65 - 3.90
Sulphite, cryst., bgs., c.l., works..100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.35 - —
bbls., c.l., works...100 lbs. 2.30 - —
l.c.l., works.....100 lbs. 2.55 - —
powd., bbls., c.l., works.... 100 lbs. 5.25 - —
l.c.l., works.....100 lbs. 5.50 - 6.00
Sulphocarbolate, USP IX, gran., bbls., drms..lb. .28 - .33
powd., bbls..... lb. .30 - .35
Sulphocyanide, CP, drms..... lb. .55 - .65
Sulphohydrate, liquid, 68%, drms., c.l., works, 100% basis. lb. .06 - —
l.c.l., works..... lb. .08 - —
tanks, 100% basis, works. lb. .063¼- —
flake, 70-72%, drms., c.l., works..lb. .064¼- —
l.c.l., works..... lb. .08 - —
Sulphoricinoleate, bbls..... lb. .12 - —
Thiosulphate (see Soda hyposulphite).
Tungstate,[1,6] tech., kgs.....lb. 1.35 - 1.80
Soda-cinchophen, bots., drms...lb. 2.75 - 2.85
Soda-formaldehyde sulphoxalate, stand. cont. 125-250 lbs...lb. .19 - .25
Soda-sulphadiazin, USP, drms..lb.10.50 -10.60
Soda-sulphamerazin, drms.....lb.10.50 -10.60

Soda-sulphapyridine, powd., bots., dms..lb. 5.00 - 5.30
Soda-sulphathiazole, USP, dms., lb. 2.50 - 2.60
Solvent naphtha, dms., wks..gal. .31 - —
tanks, E. of Omaha, frt. alld. gal. .26 - —
Minneapolis, Chic.....gal. .26 - —
high-dash, dms., works...gal. .32 - —
tanks, frt. alld. E. of Omaha to Ia. per gal..gal. .27 - —
wire enamel, ret. dms., c.l., frt. equalized..gal. .27 - —
l.c.l., same basis.....gal. .30 - —
tanks, works.....gal. .22 - —
Soybean meal,[1,7] 41%, bulk, c.l., Decatur..ton.45.00 - —
Protein, alpha, bgs., 40,000 lbs., works..lb. .20 - —
20,000 lbs., works.....lb. .20½- —
smaller lots, works.....lb. .20½- .24
Sorbitol, com'l, dms., c.l., works, lb. .16½- —
l.c.l., works.....lb. .17½- —
Sparteine sulphate, bots., cns..oz. 2.25 - 2.35
Spearmint leaves, bls.....lb. .45 - .49
Spikenard root, bls.....lb. .45 - .49
Spruce extract, liq., reg., bbls., c.l., works..lb. .02½- —
tanks, works.....lb. .01½- —
pwd., super, bgs., c.l., wks.lb. .04½- —
Squaw vine, bls.....lb. .55 - .55
Squill, red, fortified, powd., bbls., bxs..lb. 1.60 - —
White, bls.....lb. .11 - .12
powd., bbls., bxs.....lb. .16 - .20
St. Ignatius beans, bgs.....lb. No stocks
St. John's bread, edible, bls...lb. .10¾- .11¼
Starch, corn, pearl, bgs..100 lbs. 4.06 - —
Chicago .....100 lbs. 3.72 - —
powd., bgs.....100 lbs. 4.19 - —
Chicago .....100 lbs. 3.85 - —
Potato, bgs., c.l.....lb. .0697- —
l.c.l. .....lb. .0712- —
Rice, bgs., c.l.....lb. No stocks
Sweetpotato, bgs.....lb. No stocks
Wheat, thick boil, bgs.....lb. .06 - —
Starch, iodide, bots.....lb. 1.87 - —
Stearin, olec (see Oleostearin).
Stillingia root, bls.....lb. No stocks
Stonecrot, bls.....lb. .07½- .08
Storax, cs.....lb. 1.15 - 1.40
Stramonium leaves, bgs.....lb. .21 - .23
Seed, bgs.....lb. .20 - .21
Strontium bromide, cns., dms..lb. .52 - .55
Carbonate, 90%, bbls.....lb. .14 - .16
99%, bbls.....lb. .23 - .26
Chloride, tech., bbls.....lb. .22 - .24
mesh 90%, bbls., works..ton.56.00 - —
Chromate, bbls., kgs., Phila..lb. .35 - .37
Iodide, bots.....lb. 3.06 - 3.15
jars, 25 lbs.....lb. 3.00 - —
Lactate, dms.....lb. 1.30 - 1.35
Nitrate, bbls., c.l., works...lb. .07¾- —
l.c.l., works.....lb. .08¾- .09¾
Oxalate, bbls., works.....lb. .38 - .40
Salicylate, NF, dms.....lb. 1.10 - 1.13
Sulphate, nat., air-floated, 325
Strontium-calcium sulphide, phosphorescent, dms., works..lb. 2.50 - 2.85
Strophanthin, bots.....oz.20.00 -50.00
Strophanthus seed, Kombe, bgs., lb. 2.65 - 2.70
Strychnine, NF, cryst., cns., 100 ozs..oz. .70 - —
powd., cns., 100 ozs.....oz. .60 - —
Acetate, cns., 100 ozs.....oz. .88 - —
Arsenate, cns., 100 ozs.....oz. .91 - —
Arsenite, cns., 100 ozs.....oz. .88 - —
Glycerophosphate, cns., 100 ozs., oz. .89 - —
Hydrochloride, cns., 100 ozs. oz. .88 - —
Hypophosphite, cns., 100 ozs.oz. 1.00 - —
Nitrate, NF, cns., 100 ozs..oz. .62 - —
Phosphate, NF, cns., 100 ozs., oz. .89 - —
Sulphate, USP, cryst., cns., 100 ozs..oz. .58 - —
powd., cns., 100 ozs.....oz. .45 - —
Styrolyl acetate, bots.....lb. 2.50 - 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works..lb. .45 - —
tech., bbls., l.c.l., works...lb. .40 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphadiazine, USP, dms.....lb. 9.05 - 9.10
Sulphaguanidin, dms.....lb. 4.50 - 4.60
Sulphamerazin, dms.....lb. 9.00 - 9.10
Sulphanilamide, USP, bots.....lb. 1.50 - —
fib. dms.....lb. 1.05 - 1.25
Sulphanilamide, 30-80 mesh, 10c. higher.
Sulphapyridin, powd., bots., tins, lb. 5.00 - 5.50
Sulphathiozole, dms.....lb. 2.50 - 2.60
Sulphomethylmethane, kgs.....lb. 6.75 - 6.95
Sulphonmethane, kgs.....lb. 5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract..long ton.16.00 - —
vessels, Gulf ports, contract..long ton.17.50 - —
flour, comm'l, 99½%, bgs., c.l., works..100 lbs. 1.95 - —
l.c.l., works.....100 lbs. 2.00 - 2.11
precipitated, USP, bbls., kgs., lb. .13 - .90
refined, flour, extra fine, bgs., c.l., works..100 lbs. 2.90 - —
l.c.l., works.....100 lbs. 3.25 - 3.40
heavy, bgs., c.l., works.. 100 lbs. 2.60 - —
l.c.l., works.....100 lbs. 2.95 - 3.10
flour, light, bgs., c.l., works, 100 lbs. 2.70 - —
l.c.l., works.....100 lbs. 3.05 - 3.20
flowers, USP, bgs., c.l, wks. 100 lbs. 3.05 - —
l.c.l., works.....100 lbs. 3.40 - 3.55
Refined sulphur flowers in bbls., 25c. higher.
rock, bbls., c.l., works..100 lbs. 2.20 - —
l.cl, works.....100 lbs. 2.65 - 2.70
roll, bbls., c.l., works.100 lbs. 2.40 - —
l.c.l., works.....100 lbs. 2.75 - 2.90
rubbermakers', bgs., c.l., wks. 100 lbs. 1.85 - —
Chloride, 35-gal. dms., c.l., works..lb. .03 - .03½
l.c.l., works.....lb. .04 - .04¼
10-gal. dms., c.l., works...lb. .07 - .07¼
l.c.l. .....lb. .08 - .08½
Dioxide, liquid, com'l, cyls., c.l., works..lb. .07 - —
l.c.l. .....lb. .08 - —
multi-unit cars, works..lb. .04½- .06
tanks, works.....lb. .04 - —
refrigeration, cyls., l.c.l., works..lb. .18 - .21
Iodide, bots., jars.....lb. 3.90 - 4.11
Sumac extract, No. 1, bbls.....lb. .06 - —
No. 2, bbls.....lb. .07 - —
stainless, bbls.....lb. .09 - .11
Superphosphate,[1] pulverized, run-of-pile under 22% a.p.a., bulk, production points, Balte., unit-ton. .65 - —
Florida .....unit-ton. .51 - .54
others .....unit-ton. .57 - .64
Delivery points, Ariz., Calif., Colo., Ida., Kans., Nev., N. M., Ore., Utah, Wash., 85¼c. per unit-ton plus frt. charge from Anaconda, Mont., in excess of $6.68 per ton; guaranteed 19%, 19% or 20% a.p.a., ¼c. per unit-ton higher.
Superphosphate, triple, 40% or more, a.p.a., bulk, producing points, Florida.... unit-ton. .63 - —
South Carolina..unit-ton. .70 - —
Tennessee .....unit-ton. .75 - —
Other States and D.C., 62c. per unit-ton plus frt. charge for 40% from E. Tampa, Fla.
Superphosphate, gran., 2c. per unit-ton higher than pulverized.
Sweet basil, bls.....lb. 1.20 - 1.30

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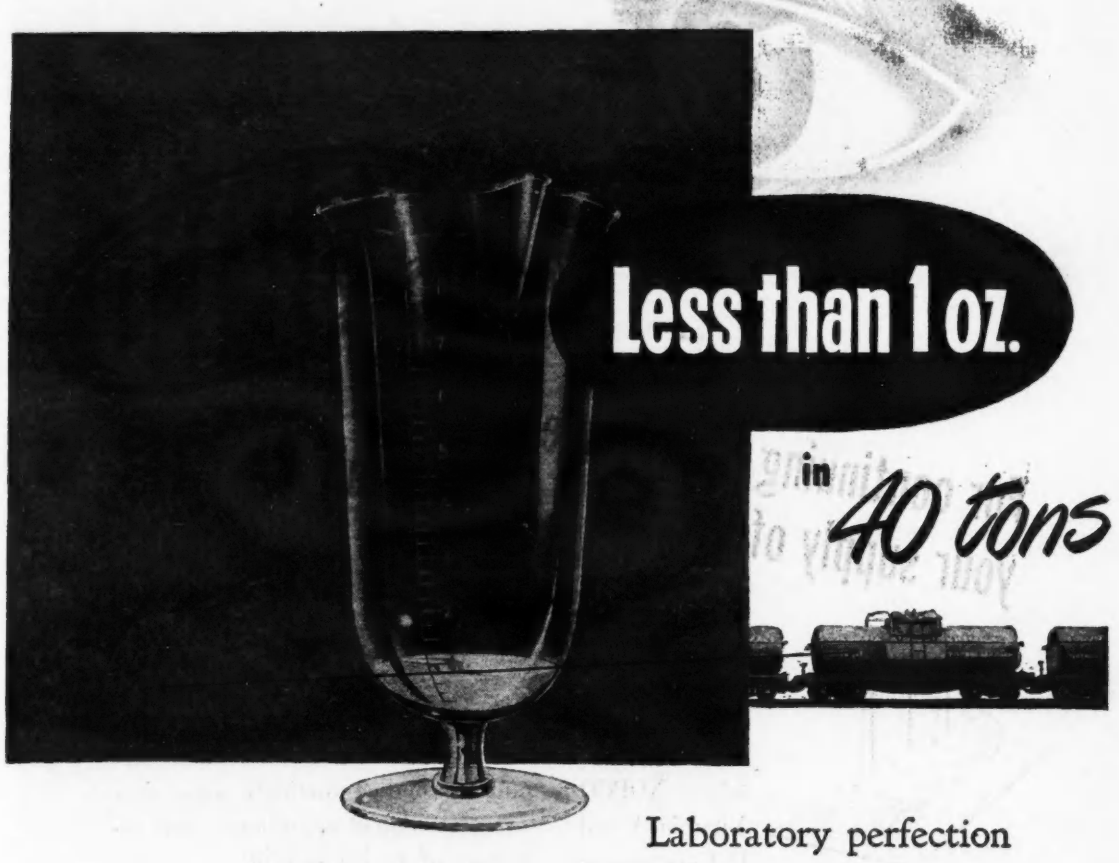
Talc,[1] dom., ordinary, grd., bgs., c.l., works..ton.14.50 -24.50
l.c.l., works.....ton.16.50 -30.00
Calif., bgs., c.l., wks.ton.17.50 -43.00
Pennsylvania, bgs., c.l., works..ton.11.00 -13.50
l.c.l., works.....ton.12.00 -14.50
Vermont, bgs., c.l., works. ton.14.00 - —
l.c.l., works.....ton.15.00 - —
fibrous, grd., coarse, off-color, New York, bgs., c.l., works..ton.13.00 - —
grd., fine, New York, 325 mesh, 93-94%, bgs., c.l., works..ton.13.00 -18.00
98 - 99.5%, bgs., c.l., works..ton.15.25 -19.25
99.85 - 99.95%, bgs., c.l., works..ton.17.00 -21.00
imp. Canada, bgs., c.l.....ton.24.00 -30.00
Tallow,[1,7] edible, tanks.....lb. .09¾- —
inedible, extra, loose.....lb. .08¾- —
special, loose.....lb. .08½- —
sulphonated, 50% (42% fat), dms., c.l..lb. .07 - .07½
(70% fat), dms., c.l.....lb. .10 - .10½
Tallow, sulphonated, l.c.l., ½c. higher.
Tamarind, bbls.....lb. .13 - .14
Tankage,[1,7] animal, feed grd., 9-11% ammon., bulk, unit-ton. 5.53 - —
Chicago .....unit-ton. 5.53 - —
fert. grd., 9% ammon., 10% b.p.l., bulk..unit-ton. 4.00 & .10
10-11% ammon., 15% b.p.l., bulk, Chicago..unit-ton. 4.00 & .10
Tapioca flour,[1,8] bgs.....lb. .07 - .07½
Java, bgs.....lb. No stocks
Tar acid oil, 15-18%, dms., c.l., works..gal. .26½- —
l.c.l., works.....gal. .28½- —
25%, dms., c.l., works..gal. .30 - —
l.c.l., works.....gal. .32 - —
Tar, pine (see Pinetar).
Tara,[1] powd., c.l. ex dock, U. S. ports..long ton.118.00 - —
Tarragon herb, bgs.....lb. .60 - .65
Leaves, bgs.....lb. 1.20 - 1.25
Tartar emetic, tech., gran. or powd., bbls., kgs..lb. .47¾- .48
dms. .....lb. .48½- .51
USP, powd., bbls., dms., kgs. lb. .52¾- .53
Terpin hydrate, com'l, bbls., c.l. lb. .24½- —
l.c.l. .....lb. .25 - .25½
USP, cryst., bbls., dms....lb. .70 - .75
powd., bbls., dms.....lb. .75 - .80
Terpineol, alpha (see A).
com'l, dms., c.l., South.....lb. .13½- —
l.c.l., South.....lb. .14 - —
tanks, South.....lb. .13 - —
pure, dms.....lb. .34 - .50
Terpinglycol ether, dms. (extra), c.l., works..lb. .19½- —
l.c.l., works.....lb. .20 - —
tanks, works.....lb. .19 - —
Terpinyl acetate, extra, cns., dms..lb. .90 - 1.15
prime, cns., dms.....lb. .75 - 1.05
Terra alba (see Gypsum).
Tetrachloroethane, dms., works, lb. .08 - .08½
Tetrachloroethylene, NF VI, 55-gal. dms., works..lb. .20 - .21½
smaller dms., works.....lb. .23½- .25½
tech. (see Perchloroethylene).
Tetrallin, dms.....lb. .19 - —
Tetrasodium pyrophosphate (see Soda pyrophosphate).
Thallium sulphate, 90%, bots., works..lb.12.50 Nom.
Theobromine,[1] dms., 25-lb. lots.. lb. 2.80 - —
smaller lots.....lb. 2.90 - 3.00
Thiamine hydrochloride, dms., 100 grams or more..kilo.160.00 - —
Thiocarbanilide, dms.....lb. .24 - —
Thiourea, CP, dms.....lb. .55 - .56
Thorium nitrate, cs., works...lb. 2.00 - —
Thyme, California, French type, bls., Pacific Coast..lb. .90 - .92
Spanish, bls.....lb. .15½- .16
Thymol, cns.....lb. 2.40 - 2.75
Iodide, dms.....lb. 3.40 - 3.80
Timbo root (see Cube root).
Tin chloride,[6] anhydrous.....lb. No stocks
crystals,[6] bgs., bbls.....lb. No stocks
Metal,[1,6] .....lb. .52 - —
Bolivian .....lb. .63½- —
Straits .....lb. No stocks
Oxide,[1,6] bbls.....lb. .54 - .55
Tetrachloride,[6] anhyd., dms., works..lb. .31 - .33
Titanium dioxide,[1,4] chalk resistant, bgs., c.l., dlvd..lb. .15 - —
l.c.l., dlvd.....lb. .15½- .15¾
nonchalking,[1,4] bgs., c.l., dlvd. E..lb. .16½- —
l.c.l., dlvd.....lb. .16¾- .17¼
plain, bgs., c.l., dlvd.....lb. .14½- —
l.c.l., dlvd.....lb. .14¾- .15½
Hydride, cns., works.....lb. 7.00 - 8.00
Pigment, barium, base,[1,4] bgs., c.l., dlvd..lb. .05¾- —
l.c.l., dlvd.....lb. .06 - —


Laboratory perfection

in large-scale production of **CAUSTIC SODA**

The manufacture of numerous products requires Caustic Soda of utmost "purity"—that is with its metallic content, such as copper or iron, rigidly controlled. In the production of high-strength textiles, for example, the presence of as much as one ounce of these impurities in 40 tons of caustic may result in an inferior product!

Caustic Soda readily picks up such metals, however. To prevent contamination is relatively simple in the laboratory—but production on the vast scale required to meet huge industrial needs necessitates ingenious methods and infinite care in processing and handling.

The achievements in meeting exacting industrial standards—including the patented purification process for producing high grade diaphragm electrolytic Caustic Soda—are characteristic of Columbia operations. They are important reasons for entrusting your requirements for alkalies and related products to Columbia.

**COLUMBIA CHEMICALS**

PITTSBURGH PLATE GLASS COMPANY • COLUMBIA CHEMICAL DIVISION
FIFTH AVENUE at BELLEFIELD • PITTSBURGH 13, PENNSYLVANIA

Chicago • Boston • St. Louis • Pittsburgh • New York • Cincinnati • Cleveland • Philadelphia • Minneapolis • Charlotte • San Francisco

COLUMBIA ESSENTIAL INDUSTRIAL CHEMICALS

Soda Ash • Caustic Soda • Sodium Bicarbonate • Liquid Chlorine • Silene EF (Hydrated Calcium Silicate) • Calcium Chloride • Soda Briquettes • Modified Sodas • Caustic Ash • Phosflake • Calcene T (Precipitated Calcium Carbonate) • Pittchlor (Calcium Hypochlorite)

Titanium pigment, calcium, base,[1,4] bgs., c.l., dlvd..lb. .05½- —
l.c.l., dlvd.....lb. .05¾- —
Calcium-rutile base,[1,4] bgs., c.l., dlvd..lb. .05½- —
l.c.l., dlvd.....lb. .05¾- —
Magnesium base,[1,4] dlvd...lb. .05¾- —
l.c.l., dlvd.....lb. .06 - —

Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse., ¼c. higher.

Tetrachloride, CP, 55-gal. dms., works..lb. .57 - —
smaller pkgs., works.....lb. .65 - 1.22
technical, 55-gal. dms., works. lb. .32 - —
smaller pkgs., works.....lb. .40 - 1.00
Tolu balsam, cns.....lb. 1.85 - 1.90
Toluidin base, distilled, kgs...lb. .96 - —
Toluene (see Toluol).
Toluol (toluene), coaltar, 2°, industr., dms., return, wks. gal. .32 - —
tanks, E. of Omaha, frt. alld..gal. .27 - —
West Minnequa, Colo..gal. .27 - —
1°, nitration, ret. dms., works. gal. .32 - —
tanks, E. of Omaha, frt. alld..gal. .27 - —
West Minnequa, Colo..gal. .27 - —
Petroleum toluol prices, same as those for coaltar toluol.
Tonga, 50% bark and vine, bbls. lb. .90 - .91
Tonka beans, Angostura, cks.lb. 1.50 - 1.60
Brazilian, Surinam, cs.....lb. .80 - .85
Totaquine,[1,6] USP XII, 100-ozs. & lots..oz. .52 - —
Triacetin, dms., works.....lb. .27 - .32
Triamylamine, dms., c.l., works. lb. .98 - —
l.c.l. .....lb. 1.01 - —

Tributyl citrate, dms.....lb. .29 - .31
smaller pkgs.....lb. .34 - .40
Phosphate, cns., l.c.l., dlvd..lb. .53 - .55
dms., l.c.l., dlvd.....lb. .49 - —
Tributylamine, dms., c.l., works. lb. .78 - —
l.c.l., works.....lb. .81 - —
Trichlorobenzene, dms., c.l., frt. alld..lb. .08 - —
l.c.l., frt. alld.....lb. .08½- —
tanks, frt. alld.....lb. .07½- —
Trichloroethane, dms., c.l., works. lb. .15 - —
l.c.l., works.....lb. .17 - —
Trichloroethylene, dms., c.l., Zone 1, works, frt. alld..lb. .08 - —
Zone 2, frt. alld.....lb. .08½- —
Zone 3, frt. alld.....lb. .09 - —
Zone 4, ex whse.....lb. .09 - —

Trichloroethylene, l.c.l., prices, ½c. higher. Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E). N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Tricresyl phosphate, tech., cns., works..lb. .28 - .39½
dms., c.l., dlvd.....lb. .25 - —
l.c.l., dlvd.....lb. .25½- —
tanks, dlvd.....lb. .24 - —
Triethanolamine, dms., c.l., frt. alld. in E..lb. .19½- —
l.c.l., same basis.....lb. .20½- —
tanks, same basis.....lb. .18½- —
Triethyl phosphate, cns.....lb. .40 - —
Triethylamine, dms., c.l., works, basis 100%..lb. .34 - —
l.c.l., works, basis 100%....lb. .36 - —
tanks, works, basis 100%....lb. .30 - —

Triethyleneglycol, dms., c.l., frt. alld. in E..lb. .18½- —
l.c.l., same basis.....lb. .19½- —
tanks, same basis.....lb. .17½- —
Trimethylamine, dms., c.l., dlvd. lb. .85 - —
l.c.l., dlvd.....lb. .90 - —
Trimethylolpropane, bbls.....lb. .65 - —
Triphenyl phosphate, bbls., c.l., frt. alld..lb. .31 - —
l.c.l., same basis.....lb. .32 - —
Tripoli,[1] air-floated, bgs., c.l., works..ton.21.50 - —
double-grd., bgs., c.l., works.. ton.17.50 - —
once-grd., bgs., c.l., works.ton.16.00 - —
Trisodium phosphate (see Soda phosphate tribasic).
Tuba root (see Cube root).
Tungsten metal, powd., 99-99.7%, dms., works..lb. 2.60 - 3.40
Oxide, kgs.....lb. No prices
Turmeric root, Alleppey, bls., futures..lb. .18 - .18½
Haitian, bls., Miami or New Orleans..lb. .10 Nom.
Madras, bgs.....lb. .17¼- .17¾
Turpentine, gum, ret. dms...gal. .93½- .94½
Wood,[1] d.d., dms., East....gal. .65 - .70
tanks, East.....gal. .69 - —
steam-dist., ret. dms., East, gal. .80 - .88
tanks, East.....gal. .74 - .75
Sulphate, ret. dms.....gal. .65 - .76

## U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium,[6] oxide, black, bgs...lb. 2.55 - —
yellow, kgs.....lb. 1.65 - —

Urea, dom., 46% N., bgs., c.l., works or ship. pts..ton.68.00 - —
l.c.l., ship. pts.....ton.70.50 -85.00
import, pure, cs.....lb. .12 - —
Fertilizer comp., 42% N., bulk, c.l., works, or Atlantic or Gulf ports..ton.67.40 - —
Urea-ammonia liquor (A and B), free ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..ton.89.00 - —
fixed ammonia content, Belle, W. Va., freight equalized with Hopewell, Va., $NH_3$..ton.112.60 - —
usual Atlantic and Gulf ports, $NH_3$..ton.116.80 - —

C and D prices for Urea-ammonia liquor are $1.20 per ton of nitrogen higher than the A and B respectively for the same destinations.

Urunday, c.l., ex dock, in bond. lb. .05 - —
Uva ursi leaves, bls.....lb. .19 - .20

## V

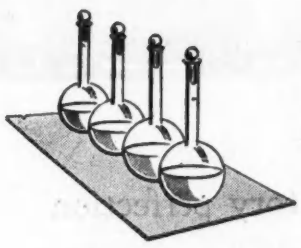
Valerian root, Belgian, NF, bls., lb. .59 - .60
Indian, bls.....lb. .52 - .53
Valonia, beards, bgs., f.a.s...ton. No prices
Cups, bgs., f.a.s.....ton. No prices
Vanadium[1] pentoxide, CP, bgs., cns., works..lb. 7.00 - —
tech., dms., works.....lb. 1.10 - —
Vanilla beans, Bourbon, tins..lb. 7.75 - 8.50
Mexican, cuts, tins.....lb. 9.50 -10.00
whole, tins.....lb.10.50 -11.00
Tahiti, white label, tins.....lb. 3.50 - 3.75
yellow label, tins.....lb. 3.25 - 3.50
West Indian, tins.....lb. No stocks
Vanillin,[1] ex eugenol, tins, 25 lbs. or more..lb. 2.60 - —
smaller lots, tins.....lb. 2.65 - 2.75
ex guaiacol, tins, 25 lbs. or more..lb. 2.35 - —
smaller lots, tins.....lb. 2.40 - 2.50
ex lignin, tins, 25 lbs or more. lb. 2.35 - —
smaller lots, tins.....lb. 2.40 - 2.50
Venice turpentine, artif., cns..lb. .24 - .25
Verdigris, bbls., bgs.....lb. .22 - .23
Vinyl acetate, cbys., works....lb. .25 - —
dms., c.l., works.....lb. .15 - —
l.c.l., works.....lb. .16 - —
smaller pkgs., l.c.l., works, lb. .25 - —
Ether, bots., 75 c.c., less 20% and 20%..bot. 1.50 - —
50 c.c., same basis.....bot. 1.05 - —
25 c.c., same basis.....bot. .65 - —
Trichloride (see Trichloroethane).
Vinylpyridin, ret. dms., works.lb. 1.50 - —
Viosterol (irradiated ergosterol), bots., mil., units. .10 - .12
in corn oil (see Calciferol).
Vitamin A (see Oils, codliver, halibut-liver).
$B_1$ (see Thiamine hydrochloride).
$B_2$ (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
C (see Acid, ascorbic).
D (see Oils, codliver, halibut-liver, viosterol).
$D_2$ (see Calciferol).
E (see Alphatocopherol).
G (see Riboflavin).
P-F (see Acid, nicotinic, and Nicotinamide).
Violet, methyl, toner (see M).
V.M.P. naphtha (see Petroleum naphtha, v.m.p.).

## W

Wahoo root bark, bls.....lb. .55 - .60
Wattle bark,[1,5] E. Africa, bgs., f.a.s..ton.58.00 - —
S. Africa, merchandable, bgs., f.a.s..ton.63.00 - —
fair average, bgs., f.a.s..ton.65.50 - —
prime quality, bgs., f.a.s.. ton.68.00 - —
extract,[1] liquid, 35% tannin, bbls., works..lb. .05¼- .06¾
tanks, works.....lb. .04¾- .05¼
solid, E. Afr., 62% tannin, ex dock..lb. .05395- .05845
S. Afr., 61% tannin, ex dock. lb. .0572- .0597
Wax, amorphous (see Wax, microcrystalline).
Bayberry, bgs.....lb. No stocks
Bees, bleached, USP, white, bricks, cakes, cs.....lb. .62 - .65
slabs, bgs.....lb. .60 - .62
crude, African, bgs.....lb. .49 - .51
Western hemisphere, bgs.lb. .55 - .57
refined, yellow, brick, bgs.lb. .56 - .58
cakes, cs.....lb. .55 - .57
Candelilla, bgs.....lb. .70 - .72
refined, bags.....lb. .72 - .74
Powdered, candelilla, 20 mesh, 5c. per lb. extra; 80 mesh, 5½c.; 100-200 mesh, 6c.
Carnauba, chalky, No. 3, bgs., ton lots..lb. No stocks
smaller lots.....lb. 1.25 - 1.30
North Country, No. 2, bgs., ton lots..lb. No stocks
smaller lots.....lb. 1.35 - 1.40
No. 3, bgs., ton lots.....lb. No stocks
smaller lots.....lb. 1.30 - 1.35
refined, bgs., ton lots...lb. No stocks
smaller lots.....lb. 1.45 - 1.50
yellow, No. 1, bgs., ton lots, lb. No stocks
smaller lots.....lb. 1.65 - 1.70
No. 2, bgs., ton lots.....lb. No stocks
smaller lots.....lb. 1.65 - —
Powdered carnauba prices, same differentials as powdered candelilla.
Ceresin, dom., 132°-136° m.p., bgs..lb. .12½- .13½
138°-140° m.p., bgs.....lb. .14 - —
158°-162° m.p., bgs.....lb. .19 - .22
Japan, cs.....lb. No stocks
Micro-crystalline, 170° - 175° m.p., A.S.T.M., amber, ctns., 30 tons, yearly, contract, group 3, works. lb. .14¾- —
amber, ctns., smaller lots, same basis.....lb. .14½- .15½
black, ctns., 30 tons, same basis..lb. .12¾- —
smaller lots, same basis.. lb. .13 - .13¾
190° - 195° m.p., A.S.T.M., amber, ctns., 30 tons, same basis..lb. .16¼- —
smaller lots, same basis, lb. .16½- .17¼
black, ctns., 30 tons, same basis..lb. .14¾- —
smaller bots., same basis, lb. .15 - .15¾
white, ctns., 30 tons, same basis..lb. .24¾- —
smaller lots, same basis, lb. .25 - .25¾
Montan, domestic, bgs.....lb. No stocks
Ouricury, crude, bgs., ton lots. lb. 1.00 - 1.05
smaller lots.....lb. 1.10 - 1.15

Keep your eye on NOPCO

For continuing improvement in your supply of Vitamin A and Vitamin D



Make no mistake—NOPCO Vitamin A and D Concentrates will set the standard for your purchase specifications in the postwar era.

Here are two reasons why:

1. Since 1940, four NOPCO development laboratories have been responsible for more than seventy patents or patent applications on *Vitamin A and D Concentrates alone.*

2. Five NOPCO vitamin control laboratories conduct routinely *some sixty different control operations,* your assurance of quality control.

This constant striving for technical improvement, and this care in maintaining those improvements in the finished product, are two big reasons why you should—*Keep Your Eye On NOPCO*—for the latest developments in production of top-quality Vitamin A and Vitamin D.

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NATIONAL OIL PRODUCTS COMPANY

BOSTON • HARRISON, N. J. • CHICAGO
CEDARTOWN, GA • RICHMOND, CALIF.

Pioneer producer of *natural* Vitamin A and Vitamin D Concentrates, Vitab Rice Bran Concentrate and Calcium Pantothenate.

NOPCO
REG. U.S. PAT. OFF.

Vitamin A and D Concentrates

Wax, auricury, refined, bgs., ton lots..lb. 1.15 - 1.20
smaller lots.....lb. 1.20 - 1.25
Powdered auricury prices same as powdered candelilla.
Paraffin (see P).
Spermaceti, blocks, cs.....lb. .27 - .32
cakes, cs.....lb. .28 - .33
White lead (see Lead, white).
White precipitate, powd., dms., 50 lbs. or more..lb. 2.50 - —
White pine bark, rossed, bis..lb. .14 - .15
Whiting,[1] chalk, dry-grd., bgs., c.l..ton.18.00 -22.00
l.c.l. .....ton.20.00 -24.00
wet-ground, bgs., c.l.....ton.21.00 -25.00
l.c.l. .....ton.25.00 -29.00
gilders, bolted, bgs., c.l.ton.20.00 -24.00
l.c.l. .....ton.21.00 -25.00
extra-bolted, bgs., c.l..ton.22.00 -26.00
l.c.l. .....ton.23.00 -27.00
Limestone, dry-grd., 325 mesh, bgs., 40 tons, N. E., works, ton. 6.00 - —
smaller lots, N.E., works. ton. 7.00 - 9.00
wet-grd., air-coated, 300 mesh, 90¼%, bgs., c.l..ton. 9.35 -10.10
200 mesh, 99¾%, bgs., c.l., ton. 8.00 - 9.50
90%, bgs., c.l.....ton. 6.25 - 7.00
water-floated, extra gilders, bgs., c.l..ton.10.00 - —
gilders, bgs., c.l.....ton.12.45 - —
putty grade, bgs., c.l..ton.12.00 - —
Paris white, bgs., c.l.....ton.24.00 -26.00
l.c.l. .....ton.25.00 -29.00
precipitated, bgs., c.l.....ton.14.00 -15.00
l.c.l. .....ton.18.00 -20.00
Wild cherry bark, thick, bls..lb. .06 - .07
thin, natural, bgs.....lb. .16 - .17
rossed, green, bls.....lb. .25 - .26
Wild indigo root, bls.....lb. .30 - .31
Witch-hazel leaves, bls.....lb. .21 - .22
Witherite (see Barium carbonate, natural).
Woodflour, 40 mesh, bulk, c.l., N. Tonawanda, N. Y..ton.20.00 - —
60 mesh, same basis.....ton.24.00 - —
80 mesh, same basis.....ton.27.00 - —
100 mesh, same basis.....ton.30.00 -32.00
Woodflour, in bags, 25c. each extra, returnable.
Wormseed, American, bgs.....lb. .20 - .22
Levant, bgs.....lb. 4.50 - 4.75
Wormwood, bls.....lb. .50 - .60

## X

Xanthorrhiza bls.....lb. .24 - .25
Xylene (see Xylol).
Xylidin, mixed, dms.....lb. .35 - .36
Xylol (xylene), coaltar, indus., ret. dms., works..gal. .31 - —
tanks, E. of Omaha, frt. alld..gal. .26 - —
West Minnequa, Colo..gal. .26 - —
10°, ret. dms., works.....gal. .34 - —
tanks, E. of Omaha, frt. alld. gal. .29 - —
5°, ret. dms., works.....gal. .41 - —
tanks, E. of Omaha, frt. alld. gal. .36 - —
3°, ret. dms., works.....gal. .47 - —
tanks, E. of Omaha, frt. alld. gal. .41 - —
Petroleum xylol prices, same as those for coaltar xylol.

## Y

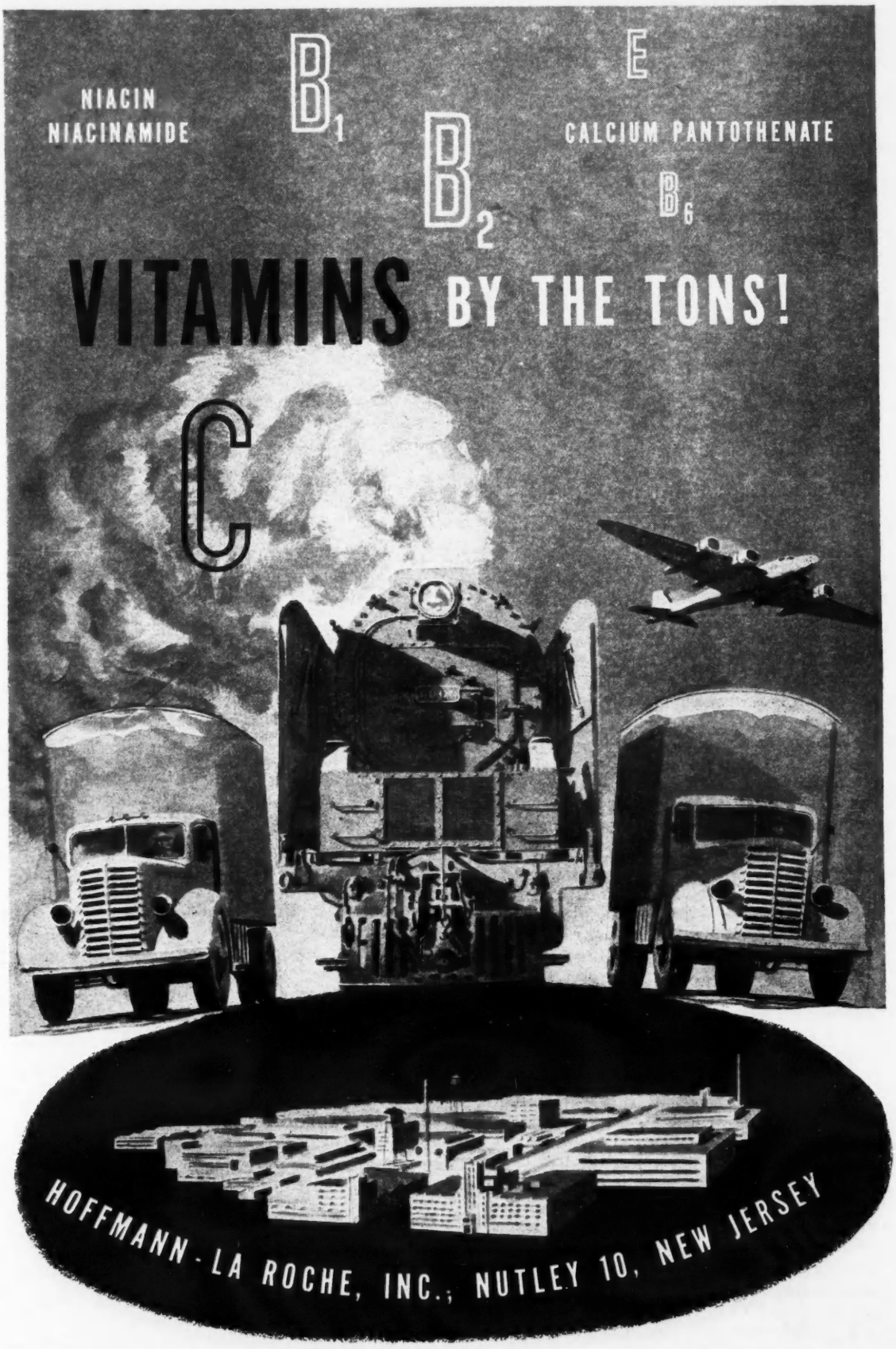
Yara yara, cryst., bots., cns..lb. 1.75 - 1.90
Yeast, brewer's dry, 50 B units, dms..lb. .35 - —
90 B units, dms.....lb. .45 - —
200 B units, dms.....lb. .50 - —
300 B units, dms.....lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., divd. N. of Tenn. and N. C., E. of Miss. R., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul..lb. .32 - —
Barium chromate yellow price differentials in other State and city zones are those for chrome yellow below.
Benzidin, bbls., divd.....lb. 1.35 - 2.25
Cadmium, CP, bxs.....lb. 1.35 - 1.40
ton lots, E. of Rockies..lb. .55 - —
smaller lots, same basis, lb. .65 - —
sulphide, orange, cs., kgs., works..lb. 1.10 Nom.
Chrome, CP, bbls., divd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts .lb. .16 - —
Chrome yellow prices are ½c. higher, divd. Ala., Fla., Ga., La. (Shreveport), 1¼c., Miss., N. C., S. C., Tenn., Dallas, Tex., 1¼c.; Ft. Worth, Tex., 1¾c.; El Paso, Tex., 2c.; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St Joseph, 1.6c. higher divd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Dutch, pink, bbls.....lb. .09 - .11
Hansa, bbls., same basis as chrome..lb. 1.37 - —
primrose, bbls., same basis.lb. 1.75 - —
Iron oxide, nat., bbls., c.l., Bethlehem, Easton, Pa. lb. .04½- —
l.c.l., same basis.....lb. .05 - —
synthetic, bbls., c.l., works. lb. .0685- —
l.c.l., works.....lb. .0710- —
Mercury oxide, bbls., 1,000 lbs., lb. 2.43 - —
smaller lots.....lb. 2.45 - —
Ocher American, golden, bbls., works..lb. .04½- .06¼
yellow, bbls., works.....lb. .02 - .02¼
French type, bbls., c.l.....lb. .0645- —
l.c.l. .....lb. .0935- —
Persian orange (see O).
Zinc, bbls., same basis as chrome..lb. .16 - —
Navy spec. type, bbls., contract..lb. .16 - —
Yellow dock rost, bls.....lb. .35 - .36
Yellow xanthorrhiza (see Xanthorrhiza).
Yerba santa leaves, bls.....lb. .21 - .25
Yohimbine hydrochloride, vls..oz. 3.00 - 3.75

## Z

Zein, bgs., 1,000 lbs., works...lb. .25 - —
smaller lots, works.....lb. .30 - —
Zinc acetate, tech., bbls., divd.lb. .16 - .17
USP, bbls.....lb. .26 - .27
kgs. .....lb. .29 - —
Arsenite,[2] bgs., c.l., frt. alld. E. of Rockies..lb. .11¾- .13¼
l.c.l., same basis.....lb. .12¼- .13¼
Borate, bgs., c.l.....lb. .12 - —
Carbonate, tech., rubber makers' grade, bbls., works..lb. .09¾- .10¾
USP, precip., powd., bbls..lb. .35 - —
dms. .....lb. .40 - —
kgs. .....lb. .37 - —
Chloride, tech., fused, dms., c.l., works..100 lbs. 5.00 - —
l.c.l., works.....100 lbs. 5.65 - —
Zinc chloride, solution, 50%, dms., c.l., works..lb. .0315- —
l.c.l., works.....100 lbs. 6.50 - —
solution, 50%, dms., c.l., works..lb. .0315- —
l.c.l., works.....lb. .04½- .04¾
tanks, works.....lb. .0250- —
USP, dms.....lb. .30 - .31
jars .....lb. .35 - .36
Chromate (see Yellow, zinc).
Cyanide, kgs., works.....lb. .33 - .37
Dust,[3] bbls., c.l., divd.....lb. .1035- —
l.c.l., works.....lb. .1135- —
Fluoride, bbls.....lb. .25 - .30
Hydrosulphite, dms., works..lb. .16 - —
Iodide, NF, bots.....lb. 4.00 - 4.75
jars .....lb. 4.40 - —
Laurate, bbls.....lb. .32 - .33
Metal,[1] (quotations in Protective Coatings market).
Naphthenate, 8%-10% Zn, dms. lb. .16 - .19½
Oxide, pigment, dom., acicular, bgs., c.l., divd..lb. .07¼- —
l.c.l., divd.....lb. .07½- —
American process, com'l, lead-free, bgs., c.l., divd..lb. .07¼- —
l.c.l., divd.....lb. .07½- —
leaded, 5%, bgs., c.l., divd..lb. .07½- —
l.c.l., divd.....lb. .07⅝- —
35% or more, bgs., c.l., divd..lb. .07 - —
l.c.l., divd.....lb. .07¼- —
French process, com'l, lead-free, bgs., c.l., divd..lb. .07¼- —
l.c.l., divd.....lb. .07½- —
green seal, bgs., c.l., divd..lb. .09 - —
l.c.l., divd.....lb. .09¼- —
Zinc oxide pigment, dom., French process, com'l., lead-free, white seal, bgs., c.l., divd. lb. .09½- —
l.c.l., divd.....lb. .09⅝- —
white seal, bgs., c.l., divd..lb. .09½- —
l.c.l., divd.....lb. .09¾- —
USP, ctns., c.l.....lb. .10¼- —
l.c.l. .....lb. .10¾- —
Zinc oxide Pac. Coast prices ½c. higher; bbl. prices ½c. higher than bgs.
Resinate fused, 1% Zn. lump, dms..lb. .11 - .12
precipitated, 8.40% to 9% Zn, powd., dms..lb. .14½- .15
Silicofluoride, bbls.....lb. .15 - .16
Stearate, tech., ctns., c.l., frt. equald..lb. .29 - —
smaller lots, same basis.lb. .30 - .31
USP (same prices as tech.).
Sulphate, cryst., bgs., c.l., works, frt. alld..100 lbs. 3.40 - —
l.c.l., same basis....100 lbs. 4.15 - —
flake, bgs., c.l., same basis 100 lbs. 3.80 - —
l.c.l., same basis....100 lbs. 4.55 - —
powd., bgs., c.l., same basis, 100 lbs. 5.35 - —
l.c.l., same basis....100 lbs. 6.10 - —
Zinc sulphate, in bbls., 25c. higher.
Sulphide,[1] pure, bgs., c.l., divd. lb. .08¼- —
l.c.l., divd.....lb. .08½- —
bbls., c.l., divd.....lb. .08½- —
l.c.l., divd.....lb. .08⅝- —
Barium pigment,[1] bgs., c.l., divd..lb. .0560- —
l.c.l., divd.....lb. .0585- —
Calcium pigment,[1] bgs., c.l., divd..lb. .0560- —
l.c.l., divd.....lb. .0585- —
Fluorescent pigment,[1] works, frt. alld..lb. .90 - 1.00
Zinc sulphide, magnesium pigment,[1] bgs., c.l., divd..lb. .05¾- —
l.c.l., divd.....lb. .06 - —
Zinc sulphide and pigments, Pac. coast prices ¼c. higher; bbl. prices ¼c. higher than bgs.
Sulphocarbolate, NF, bbls., dms. lb. .28 - .30
Tallate, 5% Zn, dms.....lb. .09¾- —
Yellow (see Yellow, zinc).
Zinc-ammonia chloride, dms., c.l., works..100 lbs. 5.65 - —
l.c.l., works.....100 lbs. 6.70 - —
Zinc-cadmium sulphide, fluorescent, cns., works, frt. alld..lb. 2.00 - 2.60
Zinc-iron oxide pigment, bgs., c.l., divd..lb. .06 - —
l.c.l., divd. E. of Rockies, lb. .06¼- —
Pac. cst.....lb. .06¾- —
ex whse., Pac. cst....lb. .07 - —
Zirconium hydride, cns., works, lb. 7.00 - 8.00
Nitrate, kgs., works.....lb. 3.00 - 4.00
Oxide, crude, 99%, grd., 200 mesh, bbls., c.l., works.. ton.95.00 - —
10 tons to c.l....ton.100.00 - —
white, 98-98½%, grd., kgs., works..lb. .80 - —

### *Synthetic Resins*

**The customary monthly listing of prices for synthetic resins and other branded paint materials was printed** in OPD for February 4.



OPD—2-18-1946 36

# Oil, Paint & Drug Reporter

Founded October 18, 1871, by
William O. Allison
Directed, 1909-1943, by Harry J. Schnell

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Volume 149 February 18, 1946 Number 7

## Why Are Goods Scarce

Whatever may be the value, or lack thereof, of fact-finding as a contributor to the ending of employment disruptions, there is a place for a goodly measure of some such looking and assaying in another bottleneck to economic progress. It would pay all around if some capable, reliable means were found of discovering just why many common articles of trade are scarcer now than they were when a large portion of their production was going to war.

With respect to many of these scarce articles, inadequate manpower is not an obstructing factor. In most instances there is no lack of the materials from or with which they are produced. To accept some versions of the matter, there is no lack of production. In other quarters it is charged that strikes are welcomed by employers as they provide an excuse for not producing goods which it is undesirable to sell at unsatisfactory profits under OPA ceilings.

An interesting aspect of the problem of shortages of goods is presented in connection with the opposition to governmental proposals that exports be curtailed or stopped until the domestic markets are adequately supplied. In this connection it is charged that the lure of highly profitable, unceiled foreign markets drives out all consideration of the needs of domestic consumers. Judged from the rumored levels of some export prices, the lure in that direction is strong indeed. But, there is some virtue in the statement that exporters do not relish losing markets to relief agencies, which also appear to disregard home needs.

But, what is the truth? Why is it that the markets are poorly supplied with many common articles? Why does so much unbalance between supply and demand persist when the most common demand against price-control is that it be removed as soon as supply gets reasonably close to demand? If there is the desire that there appears to be to have price-control lifted, why is the strongest reason for its continuation allowed to get stronger?

Economic schools always have clashed, sometimes within their own ranks, over the relative merits of volume and margin as the objective in marketing policies. Mass production has quite firmly established the value of volume at that stage; the matter is still vigorously debated with reference to distribution. If their published sentiments are an applicable criterion, both producers and distributors in some lines have wholly discarded all thought of volume as a prime factor in business reconversion.

It would be widely useful—even to all business groups—to know just why production for civilian use can be said to be held back—whatever may be the truth of the allegation. It would be still more useful to know just why charges of deferred distribution are evidently supported by conditions in various markets. Of course, probing of these matters would lead to wide argument over the extent to which a margin of profit is the business of anybody other than the one who is making it. Snooping would be inevitable. But, there are facts which it would be well for all to know and to appraise. There is talk already of putting pressure on government to dump its stockpiles, as well as surpluses, of war goods on the open market to smash the bottlenecks that are keeping dealers' shelves bare. Adequate acquaintance with the facts might point the way to a more desirable process.

—O-P-D—

## Veterans' Training Schools

In the characteristically governmental practice, as common, at least, in legislative halls as in administrative bureaus, of doing things the hard and costly way, the director of veterans' retraining has asked for a fund of $1,000,000 for hiring investigators to block diploma mills and other mushroom institutions already very active in proffering schooling and other training courses. The money, as the director plans it, would be distributed among the several States. He is arranging conferences with governors and school superintendents to figure out how to use the fund.

It is undeniable that sucker-baiters are coming out in force under the opportunities of the veterans' retraining program. The gates are pushed wide open for them by the inability of established schools and other training agencies, for some reason or other, to handle the multitude of veterans who want to get the benefits of the educational and other training provisions of the G.I. bill of rights.

It goes without saying that everything possible should be done to prevent veterans from being victimized by worthless "schools" and to prevent the wasting of public funds in providing such institutions with profits. But, this does not require the spending of $1,000,000 in paying investigators—and perhaps as much more to investigate the investigators.

This problem came into notice in the field of pharmacal education many months ago. It was taken up by the National Drug Trade Conference at its annual meeting two months ago, and that organization adopted the following resolution addressed to the officials of the retraining program:—

> Resolved: That in order that G.I. pharmacy students gain the fullest advantage from their pharmaceutical education, they be urged to enroll only in schools or colleges of pharmacy accredited by the American Council for Pharmaceutical Education and in their own interest to refrain from undertaking any pharmacy courses at schools of pharmacy which are not so accredited.

Accrediting agencies exist and function in all fields of education, vocational, as well as academic. It should be a hard-and-fast rule of the veterans' retraining program that no money will be paid under the G.I. bill of rights to any teaching or training institution that is not accredited by its respective agency. To the extent that institutions already accredited are unable to provide facilities for veterans, the contriving of a method of expedited accrediting of deserving new schools certainly should not present great difficulty, and should not entail more than a nominal cost to the program. The machinery is already set up and operating.

—O-P-D—

## Political Medicine

The reactionary medical groups have become especially vociferous in calling for a showdown on political medicine because of President Truman's backing of a scheme of better medical care for the public as a whole. These denunciations and allegations come with poor grace from those whose medical politics has had no small part in putting the matter of medical care into political programs. Political reform is always the consequence of the indifference, inconsiderateness, and self-satisfaction of private interests carrying the responsibility in the matter at which the reform is aimed.

It is true that the largest of the powerful medical organizations, after several years of obstructionistic tactics, has come out with a scheme for the improvement of medical care. The scheme is inadequate; because it fails at the very point where a better system is needed; that is, in the providing of proper medical care in areas and for populations which cannot afford to provide it by existing means, even those which serve well the least wealthy in pecunious communities.

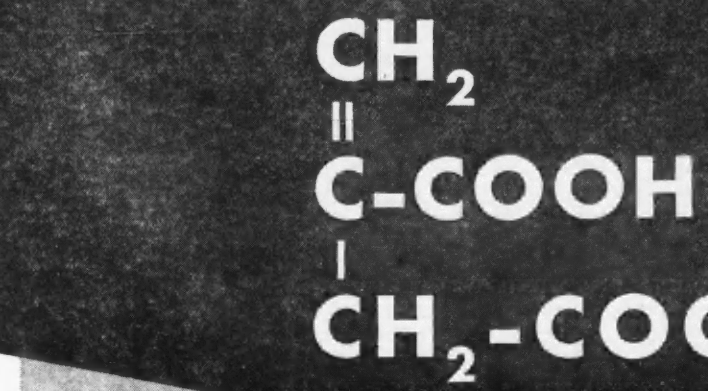
It is for the localities of small wealth that the biggest problem of providing medical care arises. It is for these that a Federal system of compulsory insurance is proposed. There may be some other way in which proper medical care can be provided in nonindustrial communities of little wealth; but no practical method of eliminating state aid has yet been adduced.

There is a sorry commentary on the adequacy of medical care in the newspaper item of some ten days ago from a city within 50 miles of the City of New York. A man of twenty-four years died of tetanus in a hospital there, despite a motor dash of 32 miles by State troopers to bring in antitetanus serum. The man cut his thumb with a saw two weeks earlier at his home in a nearby rural community. He went to the hospital the day before he died. When, next morning, his condition got worse, the emergency attempt to get the serum was made. No comment is necessary on the status of medical care in the man's home community or in the hospital.

The 1944-5 report of the Surgeon-General of the United States Public Health Service gives much attention to the peacetime problem of improving the people's health, and the necessary facilities and services which attend it. The surgeon-general lays out a comprehensive program. In his opinion, the larger share of the cost of the basic services should be borne by State and local health agencies. That, of course, is political medicine, although it is not centralized in the Federal government. Until private medicine really does its job, attempts at least to tinker it politically will be made.

Political medicine would be bad; but inadequate medicine is worse.

# ITACONIC ACID



| | |
|---|---|
| Molecular Weight . . . | 130.10 |
| Appearance . . . . . | White, crystalline, solid |
| Melting Point . . . . | 167-168°C. |
| Solubility in Water . . . | At 20°C. a saturated solution contains 7.6 grams of Itaconic Acid per 100 grams of solution. |

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# Heavy Chemicals

Former supply shortages have not been relieved during the past week while in some instances, the scarcity has been emphasized to a greater extent. Any improvement in liquid caustic soda suggested early in the month has been dissipated by an expanding consuming demand that has placed the liquid in almost as tight a position as the dry forms. Light soda ash in bulk has continued to flow regularly from works and the supply of this grade in bags seemed a little better, but dense ash both in bulk and in bags has assumed a definitely tight condition under pressure demand mostly from the glass furnaces. Continued short shipments of calcium chloride reflected the tight position of that market. Labor difficulties have affected the production of white arsenic and domestic production is temporarily sold out.

Supplies of permanganate of potash have met the requirements of regular users, but can't go much further than that. Nickel sulphate supplies have not improved. The closing down of a producing plant by a labor strike has neutralized the influence of any increase in production that has taken place. White sal ammoniac held the same tight position formerly noted. There was not much carbonate of potash around, but chlorate of potash moved freely enough to meet major consuming requirements. Recent increased conversion of chlorine into carbontetrachloride has not worked so well, there being plenty of both chemicals available during the past week. The shortage of tankcars has not been relieved and the scarcity of drum containers has greatly added to shipping difficulties.

Paper production as a percentage of six-day capacity was 99.7 in the week ended Feb. 9, according to the American Paper and Pulp Association. This compares with 101.5 in the previous week and 90.1 percent a year ago.

**Ammonia Liquor**—Coke by-product output of this material averaged over 4,500,000 pounds a month throughout 1945. According to the Bureau of Mines, December production was 4,628,483 pounds against 4,441,679 pounds in November. December sales registered 4,131,832 pounds. Total production for 1945 was 55,215,973 pounds, compared with 63,329,672 pounds in 1944. Stocks at the end of December were 1,907,666 pounds, compared with 1,704,211 pounds on November 30.

**Ammoniac Sal** — White granular continued under pressure through maintenance of heavy demand for use in the manufacture of dry batteries. Production has been increased and is expected to show additional expansion later in the year. At present demand has exceeded the supply and the market has retained a tight position.

**Arsenic**—White powdered supplies have shown an appreciable shrinkage since the first of the year and the market has assumed a tight position. Labor difficulties which have shortened output, combined with an active demand from the glass and insecticide industries were primary factors in bringing about the present situation. Domestic production is heavily sold ahead temporarily. According to reports, there is a sizable stockpile in Sweden that could be tapped if ships were made available.

**Calcium Chloride** — In definitely short supply at present with an extensive demand awaiting to be satisfied. Production has continued considerably behind scheduled requirements and there is a heavy influx of new inquiries for road use. In some producing quarters, it was stated that the present market position is tighter than at any time since the turn of year.

**Carbon Tetrachloride**—Supplies are adequate to meet current requirements and the tone of the market is somewhat easy. In attempting to reduce the supply of chlorine, production of carbontetrachloride has been increased to a level that is beyond the ability of the market to absorb readily.

**Chlorine** — Sufficient stocks are available to meet demand but shipments have been made difficult by the shortage of cylinders and tankcars. The shortage of containers seems to be getting worse instead of better.

**Copper**—Supplies of refined copper were lower at the close of January. Stocks in the United States, exclusive of consumers' supplies at their plants and warehouses, were 72,799 tons at the end of January, compared with 76,512 at the end of December, a drop of 3,713, according to the Copper Institute. The production of refined copper from domestic ores last month was 69,008 tons, against 66,062 in December. Domestic shipments were 115,601 tons, compared with 103,464 in December. Of the domestic deliveries last month 42,880 tons were processed from foreign-mined ores, compared with 39,489 tons in December. The California output of copper last year totaled 13,810,000 pounds.

**Nickel Sulphate**—Demand has continued to tax the supply of this chemical and the market has felt the effect of the closing down of a prominent producer. Shipments, while delayed, are going forward to regular consumers, but the market appeared to be definitely short of material for prompt shipment. There has been an active inquiry from the hardware manufacturers, but the heaviest call has come from the large soap and lard compound makers where nickel salts is used as a catalyst in the hydrogenation of fats and oils.

**Potash Chlorate**—Heavy demand for this chemical has been satisfied by present production and the market has continued to show a well balanced position. The call for shipments to the match industry has remained steady. The Chemical Division of CPA states that production of matches in the second quarter of 1945 aggregated 133 billion. Of these, 79 billion were wood matches and 54 billion were book matches. This output, although 9 percent greater than in the second period of 1944, was about 3 percent below production in the first quarter of 1945.

**Potash Permanganate** — Production has found a ready outlet through regular consuming channels and there is no slack material in first hands at the present time. Inquiry has remained active and a fair export business could be placed if material was available.

**Soda Ash**—Bulk shipments of light soda ash are running close to schedule at the present time and few complaints have been heard from the chemical, metal, paper or other large consuming industries. Light ash, in paper bags, has also been moving more promptly, but is not on a parity with scheduled requirements. The picture in dense ash is decidedly different. Shipments have fallen behind to the glassmakers and both bulk and bags are in definitely short supply.

**Soda, Caustic**—No improvement in the supply situation could be noted; in fact, stocks seemed shorter than a week ago. Consuming demand has over-run production and unless a freer outlet for chlorine can be established there are possibilities of less electrolytic caustic soda being made. The supply of liquid caustic was definitely short at the close of the week with stocks of the dry forms even shorter. Increased pressure was reported for shipments to rayon mills, petroleum refineries and various other large consumers. The shortage of steel drums for the dry forms was reported acute.

**Soda Phosphate**—December production of dibasic was 6,094 tons, compared with a revised total of 5,947 tons in the preceding month, according

*For Late Market Developments, See Page 4*

## *Market Trends*

**Prices Advanced**

None

**Prices Reduced**

None

**Comparative Price Indexes**

*General Chemicals*

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 168.9 | 168.9 | 168.9 | 169.0 |

*Acids*

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 116.0 | 116.0 | 116.0 | 116.0 |

*(For Current Prices see page 9)*

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to the Bureau of the Census. Output of monobasic in December was 1,180 tons, against 1,307 tons in November.

**Tungsten, Vanadium**—The MPR 489 has been amended in reference to tungsten, molybdenum, vanadium cobalt and certain other alloys and metals. The added amendment is section 7a, and states that the maximum price which any person may pay for the service of converting ores, concentrates or other materials into any of the commodities for which maximum prices are established by this regulation shall be the difference between the cost of the ores, concentrates or other material received by the converter and the maximum price of the commodity delivered to the person for whom conversion service is performed. In any case in which the converter is furnished other than purchased material, market value shall be used instead of cost in figuring the maximum toll charge. The amendment became effective February 11.

## Acids

**Chromic**—Not in free supply at present, and the expected increase in stocks as a result of the automobile strike has not materialized. Regular users have received shipments promptly, while new buyers have found the situation rather tight. There is a fair export inquiry that remains unsatisfied.

**Hydrofluosilicic** — Finding a fair outlet at present under moderate buying interest from the breweries, platers and adhesive manufacturers. The supply situation is favorable, with material available for prompt shipment.

**Naphthenic**—Stocks have been built up sufficiently to meet current requirements promptly. Demand for solvent use in coaltar dyestuffs, synthetic resins and rubber has continued fairly active.

**Oxalic** — April-May shipments are being booked, and it is doubtful if better than this would be accepted for carlot business. The heavy miscellaneous demand has shown no signs of relaxing, and producers have no chance to build up inventories.

**Sulphuric**—Consumers are not finding the supply much of a problem at present. The general tank shortage may have aggravated the movement in some areas, but there is no shortage of actual material. The cutback in demand from the iron and steel industry continued apparent.

*Baltimore, Feb.* 15.—Production of sulphuric acid is meeting demand with conditions in the industry unchanged, there being no such complications as are to be encountered in many other lines. Acid plants almost run themselves, being wellnigh automatic, so that labor presents no problems such as those in numerous other industries. Otherwise, the industry has what might be called smooth sailing apart from the lessened demand for military uses, which will probably be taken up by increased requirements in processes of civil charac-


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ter. So far there has been no move, apparently, to relieve acid making of price control, under which the civilian buyer is required to pay the ceiling price. There has been some talk lately of abolition of ceilings, which, as before, vary with each producer and have as a basis the top figures realized in March three years ago. These differences are not large, and as it is not at all unlikely that sooner or later the fixed basis will be abandoned, and the trade will get back on a competitive footing, with every producer fixing the level at what figures he can do business.

### Chemicals Carload Weights Hearings Cancelled

The Consolidated Classification Committee has decided to defer temporarily, consideration of increases in minimum carload weights for acids, chemicals, petroleum and its products. Hearings scheduled for New York and Chicago in connection with these subjects have been cancelled.

### National Carbon To Buy Battery Plant in N.C.

*OPD Washington Bureau*

The dry battery plant operated by the National Carbon Company at Charlotte, N. C., will be sold to the company for $387,537, subject to the priority right of Federal government agencies.

### Celanese Absorbs Tubize

The merger of the Tubize Rayon Corporation into the Celanese Corporation of America, New York, was approved last week by stockholders of both organizations.

### Sulphonics Inc. Auction Set

Sulphonics Inc., Baltimore, which recently went into bankruptcy, will have its laboratory equipment and supplies auctioned March 5.

## *Trade Briefs*

**Continental Can** Company, New York, has appointed L. Frederick Gieg as staff assistant to the vice-president in charge of sales.

**O. Hommel Company,** chemical manufacturer, Pittsburgh, has named R. C. Smith sales representative in the Southern territory.

**Robert Nathans,** recently discharged as a major in the Air Corps, has joined the staff of Sheldon, Morse, Hutchins & Easton, Inc., public relations counsel, New York.

**Allan Ross,** president and managing director for the Canadian Wrigley Company, Toronto, has severed all connections with the Wrigley companies.

**T. C. Tupper** is now stationed in the Monsanto Chemical Company's organic sales division office at Cleveland. His territory will be northern Ohio.

### Manganese Reserves in U.S. Held Increased by Mining

J. Carson Adkerson, president of the American Manganese Producers' Association, said last week that "mining and production increases rather than depletes the known reserves of manganese ore in the United States." The manganese reserves have hardly been scratched, he added, and additional developments will undoubtedly disclose additional reserves.

### Brighton Copper Names Hock Assistant Sales Manager

Alvin R. Hock, jr., has been named assistant manager in charge of sales for the Brighton Copper Works and its subsidiaries, F. C. Deckebach Sons Company, manufacturer of brewery equipment, and the Hamilton Copper and Brass Works.

### Columbia Chemical Moves

The executive offices of the Columbia Chemical Division of the Pittsburgh Plate Glass Company have been temporarily located at Fifth and Bellefield avenues, Pittsburgh

### Columbia Alkali Offers New Calcium Hypochlorite

A new high-test calcium hypochlorite, containing a minimum of 70 percent available chlorine, is now available for civilian uses, according to the Columbia Chemical Division of the Pittsburgh Plate Glass Company, Pittsburgh, Pa. Now marketed under the trade name "Pittchlor," the product previously had been requisitioned by the armed forces in very large quantities as a bleach, germicide and disinfectant. It also found wide usage in shrink resistance treatment of military woolen socks.

### Bristol Laboratories Elects Schwartz Vice-President

Frederic N. Schwartz, formerly assistant to the president, has been appointed executive vice-president and a director of the Bristol Laboratories, Syracuse, N. Y. Dr. Amel R. Menotti, director of research, was made a vice-president. Dr. Philip I. Bowman, plant manager of the penicillin division, was named assistant vice-president, and Hans C. Todt was elected assistant comptroller.

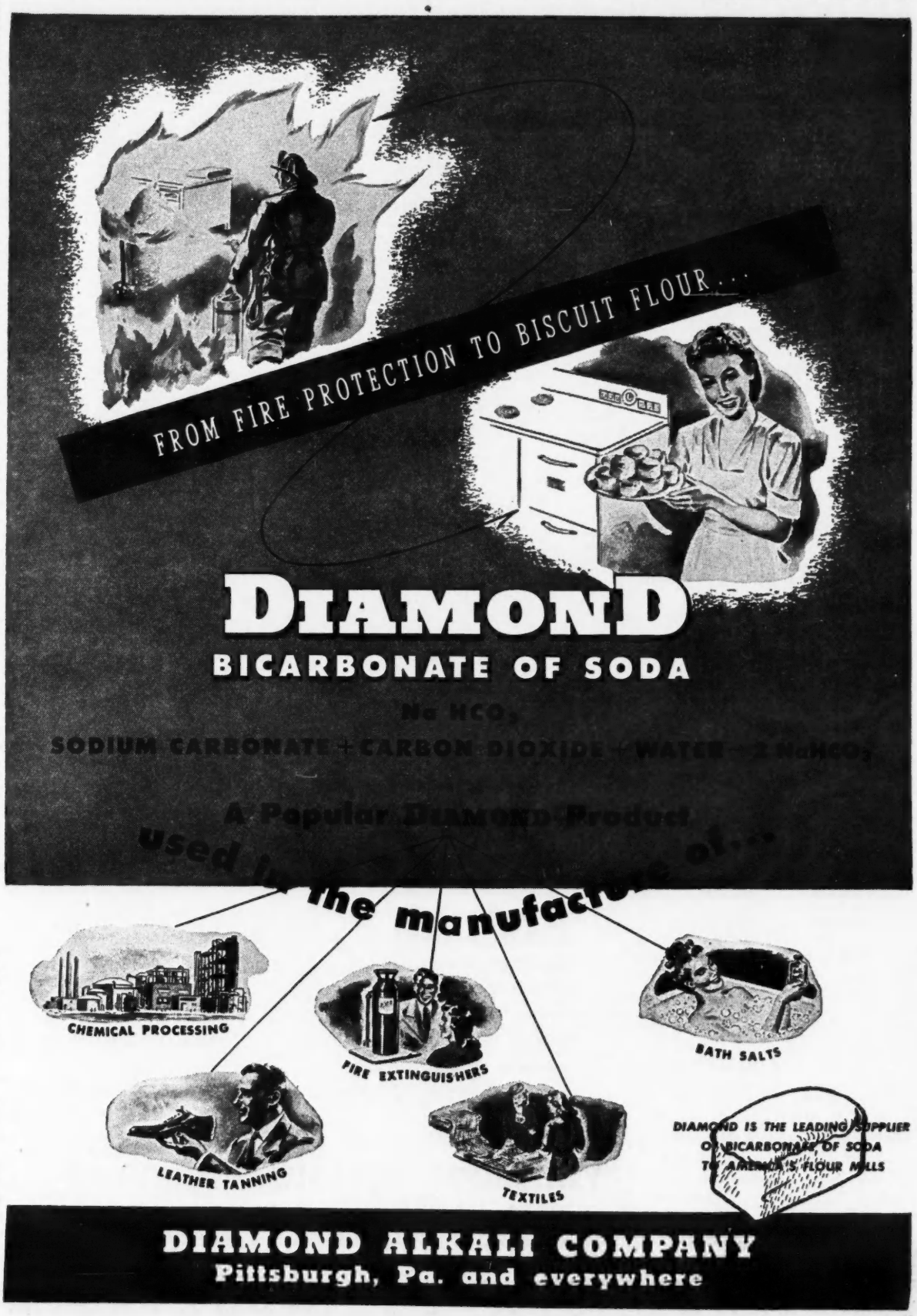
### I.G. Farben's Chemical Production Data Given

A "Technical Report on the Manufacture of Miscellaneous Chemicals in Plants of the I. G. Farben Industrie," is being distributed by the office of the publication board, Department of Commerce, at twenty-five cents per copy.

The report, No. 4115, gives details concerning production of hydroquinone of a grade suitable for photographic developing, and the manufacture of ethyl alcohol from waste wood. The rest of the report gives data on the production of hydrocyanic acid, n-butyl alcohol, acetaldehyde, acetone, detergents for synthetic fibers, and dyestuffs for acetate rayon.

### Continental Can Gets Plant Back from Army

The Army has returned to the Continetal Can Company a $1,000,000 plant in St. Louis, which for the past four years has served as an ordnance warehouse. Production of cans will get under way about the middle of the year, when the building is renovated and equipment installed.



## *Fertilizer Needs*

*—Continued from page 3*

distribution capacity, but added at the same time that another contributing cause is the fact that farm operators do not fully appreciate the value of fertilizers and lime in soil management and soil conservation.

Mr. Anderson said that adequate use of fertilizers and liming materials extends beyond the application of them mainly to cash crops; it includes fertilization and liming for soil maintenance and the development of balanced farming systems. Among other things, soil protection requires a vigorous growth of erosion-preventing and soil-conserving plants. This can generally not be had without a liberal use of fertilizer and lime, he stated. Mr. Anderson's report continued:—

Economists, agronomists, and others have estimated the quantities of fertilizer and lime it would pay farmers to use in different areas of the various States. They assumed economic conditions which would provide a national income about equal to that of 1943. In addition, they assumed crop and livestock systems that would maintain or improve soil resources, and be profitable to farmers over a period of years. On this basis the estimates came out differently from what they would have done had the investigators simply considered past relationships between farm incomes and farmers' purchases of fertilizing materials. Specifically, they allowed for applications of fertilizers and lime on a scale regarded as adequate for soil maintenance and soil improvement in an efficient and considerably reorganized production system.

The indicated desirable uses seem large in comparison with current and former practice. This is because they look beyond high immediate production of cash crops to the development of balanced farming systems, and provide also for the maintenance and improvement of land resources. For example, the estimated desirable nationwide use of total lime (783 percent of the 1935-39 level) assumes provision for complete coverage, at recommended intervals, of all the acreage of crop and pasture land that needs lime in order to maintain a desirable system of land use. The nearly fourfold recommended increase of total plant nutrients over the 1935-39 level similarly represents not only the annual quantities that would pay but those that would also permit soil maintenance and balanced farming.

This tremendously increased use of fertilizers and liming materials is desirable because many farms are seriously deficient in mineral elements and other nutrients and cannot be brought up to the level of good management if the missing elements are not supplied. In fact, it will be difficult to protect the soil from serious erosion, to broaden the range of crops that should be grown for desirable levels of living, and otherwise to improve the quality of the nation's food supply while maintaining adequate soil productivity to supply a long-continued high level of demand. In many regions erosion control depends greatly on soil improvement by means of soil-conserving crops the growing of which requires lime and fertilizer.

## Surplus Steel Drums Offered for Sale

*OPD Washington Bureau*

Foreign Liquidation Commissioner Thomas B. McCabe has announced the offering for sale in the Pacific area of a quantity of used 55-gallon steel oil drums. There are 28,000 18-gauge drums in good condition in San Fernando, Luzon, P. I.; 6,000 16-gauge in good condition located in Noumea, New Caledonia; 5,000 18-gauge in good condition on Guadalcanal, and 250,000 16 and 18-gauge, condition undetermined, in Finschafen and Biak, New Guinea.

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Day in and day out, people the world over must depend upon the farmer for food supplies. The farmer in turn depends upon fertilizer, insecticides and fungicides to help him produce a plentiful supply of healthy crops.

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## Chemical Market Research Group Meets

A discussion of the prospects for exports of chemicals featured the meeting of the Chemical Market Research Association held in the Biltmore hotel, New York, February 14. James Park, of the Standard Alcohol Company, who is president of the association, presided, announced at the meeting that the technical service committee will meet in the Hotel Whittier, Detroit, April 24, and that the association will convene at the Hotel Statler, Detroit, April 25.

Walter H. Ballard, manager of the foreign department of the American British Chemical Supplies, Inc., New York, told the meeting that practically all of Europe and Latin America are in the field for products from the United States. Mr. Ballard was of the opinion that Russian competition in the chemical field will not materialize for many years.

The tremendous industrial capacity developed by this country during the war years eventually will have to seek new outlets if it is to be fully utilized, Edward M. Melton, export manager for the Ansco division, of General Aniline & Film Corporation, told the meeting. Mr. Melton warned that if the manufacturers wait until the first signs of slackening in domestic demand then it may be too late or too costly to enter export markets.

Gilbert E. Jackson, economist, of Toronto, Canada, discussed "Foreign Trade and the Chemical Industry."

## Calco Names Foss Technical Director

Dr. Noel E. Foss has been named technical director of the pharmaceutical department of the Calco Chemical Division of the American Cyanamid Company, Bound Brook, N. J. He was recently released as a major in the Army, where he served as a laboratory officer of the Army Medical Purchasing Office.

After obtaining his B.S. in pharmacy from South Dakota State College, Dr. Foss was Dunning Fellow at the University of Maryland, receiving his Ph.D. degree in pharmaceutical chemistry. Following the completion of his graduate work, he was professor of pharmacy and pharmaceutical chemistry at Duquesne University and director of chemical research in the graduate school. Dr. Foss resigned his position at the university to join Burroughs-Wellcome & Co. (USA) Inc., Tuckahoe, N. Y., as works chemist. He left Burroughs-Wellcome in 1942 to enter the Army.

## Cheetham Retires From du Pont Co.

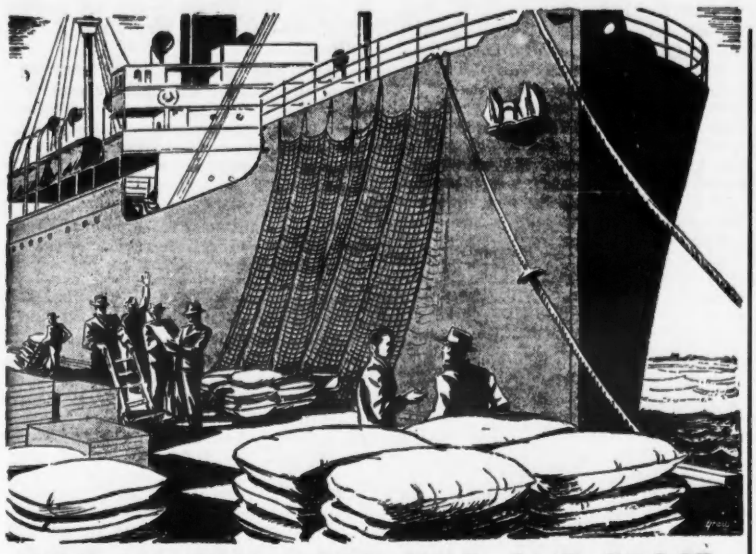
J. L. E. Cheetham has retired as production manager of the ammonia department of the E. I. du Pont de Nemours & Co., Wilmington, Del., and has been succeeded by his assistant, C. H. Doherty, jr.

Mr. Cheetham, who has been with the company for thirty-one years, has been production manager since 1937. Before that time he was manager of the Belle, W. Va., works, where he was identified with the development of the manufacturing process for the synthesis of ammonia by fixation of atmospheric nitrogen.

Mr. Doherty started with the company in 1918 and two years later was sent to Chile for eight years' work with the Du Pont Nitrate Company. He became assistant manager of the Belle works in 1929, and succeeded Mr. Cheetham there in 1937.

## Textile Machinery Uses Explained

Textile machinery was exhibited and its uses were explained at the meeting of the New York Section of the American Association of Textile Chemists and Colorsits, held in the Downtown Athletic Club, New York, February 15. W. H. Masterson, of the Better Fabrics Testing Bureau, told of "An Advanced Fabric Wear Tester." Walter Stump, of the American Viscose Corp., described "A New Instrument for Determining Foreign Retention." F. C. Reinscheld of the Analyte Instruments, Inc., spoke on the "Outline of Stability of Color Matching Lamps," and Frank Paully, of the Macbeth Corporation, described the "Continuous Indicating of PH Meter.



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## *Chemical Exposition*

*—Continued from page 7*

erating departments will be present at the exposition along with representatives from the company's advertising departments.

**"Industrial and Engineering Chemistry,"** published by the American Chemical Society, Washington, D. C.—This display will consist of showing the major steps in developing atomic power. Attendants at the booth will be Walter J. Murphy, James M. Crowe, F. J. Van Antwerpen, H. W. Stenerson, Robert F. Gould, R. L. Demmerle and Dewitt O. Myatt.

**Johns-Manville,** New York, Booths Nos. 93-94—This display will consist of products manufactured by this company from the basic raw materials—asbestos and diatomaceous silica. Attendants at the booths will be A. S. Eisenbast, W. D. Van Arnam, F. L. Horine, C. J. O'Neil, W. S. Hough, E. D. Flavin and C. C. Simoni.

**Walter Kidde & Co.,** Belleville, N. J.—This display will consist of its complete line of hand portable carbon dioxide first extinguishers, featuring trigger-finger control.

**Kimble Glass Company,** Vineland, N. J.—This display will be made up of laboratory glassware and apparatus of highest quality to meet varied requirements of research analysis and control throughout science and industry. Attendants at the booth will be E. J. Rhein, J. J. Moran, J. A. LeGrand, K. E. Robb and J. F. Ryley.

**Magnus, Mabee & Reynard, Inc.,** New York, Booth No. 480—This display consists of aromatic chemicals, concentrated flavors, high-grade perfume oils, and essential oils, most of which are manufactured by this firm. Attendants at the booth will be J. B. Magnus and R. B. Magnus, vice-presidents; W. F. Fischer, Charles R. Myers, George H. McGlynn, T. B. Berentsen, M. Stanley Barker, S. C. Gamage, A. M. Ospenson, Charles Taxier, D. E. Bellavignia, Francis J. Dunn, Louis Santoriello, F. Kenneth Stephenson, jr., and others.

**Matheson Company, Inc.,** East Rutherford, N. J.—This display consists of fifty-six different types and grades of chemical gases in various sizes. Regulators and controls for different chemical gases will also be on display. Attendants at the booth will be G. F. Ferris and W. J. Dugan.

Attendants at the booths will be H. C. Hesse, E. S. Bissell, G. J. Moorhead, C. F. Donovan, C. C. Stewart and Dr. J. H. Rushton.

**National Carbon Company,** New York—On display will be an arrangement of equipment for absorption-stripping operations constructed of standard carbon, graphite or "Karbate" products. Shown for the first time at a Chemical Exposition will be two types of standard "Karbate" plate heaters, which possess the properties of sturdiness, simplicity of design and extreme flexibility of application. Attendants at the booth will be C. O. Kleinsmith, D. B. Joy, V. J. Nolan, F. J. Vosbrugh, L. C. Werking, C. J. Chapman, W. N. Flanders, C. E. Ford, Carl Buck, John Reys, W. McCosh, H. D. Van Artsdale, F. W. Berdan and A. B. Oatman.

**National Lead Company,** New York—Booth Nos. 292-293. Will have as its theme "Make Acid Toe the Line—Go 'National' for Lead." The exhibit will include a large storage battery case intricately cast in solid lead; a striking contrast in solid lead valves from one less than a foot high to a 12-inch valve standing five feet and weighing 1,500 pounds; also a new type of valve with split body and removable seat and plug which makes it versatile, adaptable and economical. Attendants at the booths will be H. J. Irvin, C. W. Gesregan, J. H. Sabo, G. H. Checkley, C. Stauff and J. A. O'Hare.

**Ohio Chemical & Manufacturing Company** exhibit will include medical gases and chemicals, anesthetic, therapeutic and resuscitative apparatus, sterilizers, lights, operating tables and sutures. In attendance will be C. J. Lohse and R. W. Krapp.

**Permutit Company,** New York—A demonstration of the ion exchange process will be made. A chart clearly explaining demineralization of water will be on display as well as several photos of Permutit demineralizing installations. Attendants at the booth will be A. B. Mindler, M. Gilwood, J. S. Shedden, V. Calise, G. C. Banikiotes, E. Nordell and J. I. Munson.

**Chas. Pfizer & Co.,** New York—This company will exhibit a group of chemicals segregated on the basis of use by various industries. The following industries will be shown with a listing of chemicals used by each industry:—Foods and beverages, pharmaceuticals and medicinals, industrial chemicals, cleaning and plating of metals, protecting coatings, photography and blueprinting and plastics and resins. They will also have an exhibit on penicillin production.

**Phillips Petroleum Company,** Bartlesville, Okla.—This exhibit is built around a series of enlarged photographs that portray the industrial application of Phillips Specialty Hydrocarbons, Solvents and Chemicals. Attendants at the booth will be C. C. Crawford, A. E. Buell, A. J. Dirksen and R. M. Leader.

**Reichhold Chemicals, Inc.,** Detroit, Mich.—Booths Nos. 303-304. This display will consist largely of samples of resins, chemical colors and some industrial chemicals. In addition, some of the practical uses to which resins are placed will be exhibited.

**St. Regis Paper Company,** New York—This display will consist of samples of 250 commodities which are regularly packed in St. Regis multiwall bags and will be mounted in glass tubes against a black background of St. Regis 'Panelyte' plastic.

**Sharples Corporation,** Philadelphia, Pa., Booth Nos. 58-59—This display will consist of a C-20 super D-hydrator for the drying of crystals, and the new Sharples milk plant size cream separator. Attendants at the booths will be H. H. La Ment, C. E. Printz, C. M. Ambler, C. A. Davis, James Costigan, Allen Burke, J. E. Paul, David Colesberry, A. Y. Ayres and Leo Jones.

**Foster D. Snell, Inc.,** Brooklyn, N. Y., Booth No. 37—This display will consist of illustrations of some of the activities of an organization of consulting chemists and engineers. Some special pieces of equipment will be shown and also some typical products that have been developed in their laboratories. Attendants at the booth will be Dr. F. D. Snell, C. S. Kimball, L. C. Cartwright, Dr. A. F. Guiteras, Dr. C. A. Snell, Dr. W. H. Stahl, Dr. D. Gardner and Dr. C. A. Tyler.

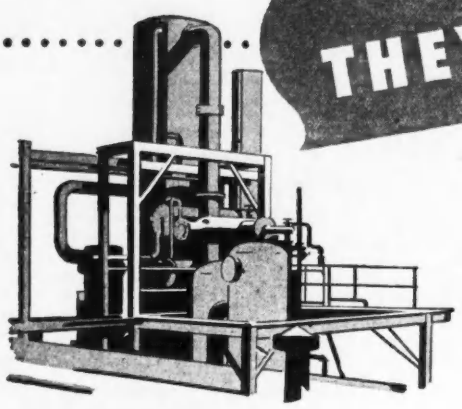
**L. Sonneborn Sons, Inc.,** New York, Booth No. 601—This display will consist of petroleum sulfonates, white mineral oils, petrolatums and petroleum specialties, wool and worsted oils, wetting and rewetting agents, water repellents and other textile processing specialties.

**F. J. Stokes Machine Company,** Philadelphia, Pa.—This display will consist of high vacuum equipment, including a drying chamber, our new 'microvac' pump and an improved gauge the accuracy of which is unaffected by gases or condensable vapors. Attendants at the booth will be L. H. Bailey, C. F. Coleman, J. C. Coleman, E. S. Walker, A. A. Hutchings, S. Bradbury, C. J. Boss, S. B. Shoemaker, J. S. Dixon, L. W. Hull, A. C. Wiebe, E. W. Flosdorf, J. A. Silver, F. J. Stokes, jr., F. N. Cranton, M. Brown, H. G. Roman, M. Adler and R. Platt.

**Wallace & Tiernan Products,** Belleville, N. J.—This display will consist of equipment to show applications of intermittent chlorination processes. Attendants at the booth will be R. C. Clement, S. A. Cole, L. E. Demler, J. G. Dobson, W. F. Haring, F. LeFebvre, R. B. Martin, J. E. Perry and C. H. Rybolt.

**Winthrop Chemical Company,** Rensselaer, N. Y.—This display will show samples of synthetic amino acids, together with a demonstration of the effect of a tryptophane deficient diet on rats. Attendants at the booth will be Aaron Addelston and C. L. Briggs.


THEY TOLD US



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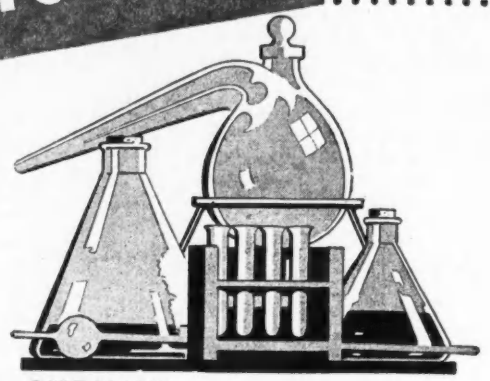

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## Phila. Chemical Club Holds Monthly Meeting

The Philadelphia Chemical Club held its first monthly meeting recently with the new president, S. Nelson MacFaul, of the Merchants Chemical Company, presiding. Other new officers are Harold B. Fohner, of the Amalgamated Chemical Corporation, first vice-president; William J. Thorn, of the Innis-Speiden Company, second vice-president; Albert D. Frank, of the Alexander Fergusson Company, treasurer, and George B. Heckel, jr., "Paint Industry Magazine," secretary.

### Alabama By-Products Sales Staff Enlarged

Three former employees of the Alabama By-Products Corporation, Birmingham, have rejoined the company's sales staff after service with the armed forces. They are J. Elbert Johnson, J. Frank Curry and Jack E. Williams.

## *Wyeth Seattle Head*

Wyeth Inc., pharmaceutical manufacturer, Philadelphia, has opened a branch office in Seattle, Wash., under the direction of Philip Lemchen.

### Du Pont Plant Explosion Does $30,000 Damage

An explosion of 3,600 pounds of smokeless powder at the Carney Point, N. J., plant of E. I. du Pont de Nemours & Co., Wilmington, Del., on February 8, did an estimated $30,000 worth of damage to the glazing house unit of the plant. No one was injured.

### Mercerization Data Issued

Copies of two articles, "A Test for Mercerization," and "The Effect of Anilin Black on Barium Activity Determinations," both by Sidney Edelstein, technical director of the Dexter Chemical Corporation, New York, may be secured at the company's offices.

### Mathieson Completes New Dry Ice Warehouses

The Mathieson Alkali Works, New York, has completed two new warehouses for dry ice and carbonic gas, one in Greensboro, N. C., and the other in Chicago.


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## *Forms Company*

Frank J. Edwards recently formed a company bearing his name for distribution of chemicals for import, export and domestic account. His offices are at 15 William street, New York. He was formerly associated with Grasselli chemicals department of E. I. du Pont de Nemours & Co., and more recently was associated with Philipp Brothers.

## *Fertilizer Tag Sales: January*

| | Equivalent tons—January | | July-Jan. |
|---|---|---|---|
| | 1946 | 1945 | 1945-46 |
| Virginia | 80,710 | 77,677 | 288,077 |
| North Crolina | 298,965 | 262,415 | 658,596 |
| South Carolina | 159,889 | 161,618 | 328,739 |
| Georgia | 169,643 | 177,895 | 387,382 |
| Florida | 132,154 | 122,720 | 598,854 |
| Alabama | 123,300 | 159,750 | 240,500 |
| Mississippi | 57,200 | 82,065 | 158,550 |
| Tennessee | 25,452 | 21,584 | 80,133 |
| Arkansas | 13,900 | 37,200 | 42,400 |
| Louisiana | 28,460 | 41,261 | 141,684 |
| Texas | 51,662 | 44,610 | 135,405 |
| Oklahoma | 7,500 | 4,042 | 16,160 |
| Total South | 1,143,835 | 1,192,837 | 3,086,480 |
| Indiana | 83,223 | 43,550 | 403,029 |
| Illinois | 50,150 | 20,975 | 164,975 |
| Kentucky | 66,570 | 51,130 | 150,321 |
| Missouri | 53,087 | 27,028 | 123,113 |
| Kansas | 4,550 | 7,305 | 21,830 |
| Total Midwest | 257,580 | 149,988 | 843,468 |
| Grand total | 1,401,415 | 1,342,825 | 3,929,948 |

## Electroplating Plant Offered by WAC

*OPD Washington Bureau*

An electroplating plant operated by Gilbert Cummins & Co., Baltimore, is included in a group of eight miscellaneous industrial properties offered for sale or lease by the War Assets Corporation.

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FOR ALL INDUSTRIES
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*Distributors in key cities.*
**Miranol Chemical Company**
Incorporated
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**SULFUR DIOXIDE**
*and*
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LOOK FOR THESE TRADEMARKS
LIQUID Sulfur Dioxide by ANSUL*
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**Roll Brimstone**
**Sublimed Flowers**
**Rubbermakers**
**Commercial Flour**
**Dusting**
**Wettable**

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Telephone: WH—4-2936 — Cable Address: RICNELCHEM

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420 LEXINGTON AVENUE NEW YORK 17, N. Y.

# Agricultural Chemicals

Every basic fertilizer material is becoming more difficult to buy with each succeeding week. In some instances, the shortage of supplies is acute and is the cause for concern at fertilizer mixing plants. The immediate outlook does not favor any relief while demand is showing seasonal expansion. An advance in the ceiling of castor pomace is noted. Aside from coaltar chemicals, most of the insecticides appear to be in fair supply. The newest thing on insecticidal practice is wallpaper impregnated with DDT.

Fertilizer tax tag sales in 17 States in January based on reports of state control officials to The National Fertilizer Association, were equivalent to 1,401,000 tons. This represented an increase of 4 percent over January, 1945, and was the largest tonnage ever reported for any January.

Tonnage of superphosphate used in mixed goods increased considerably more in 1945 than did the tonnage shipped. The total quantity disposed of was about 10 percent above 1944, a slightly smaller increase than that in production. Stocks at the close of 1945 were moderately larger than a year earlier, but they were still low in relation to consumption. Year-end stocks were equivalent to only 1½ months consumption at the average 1945 rate.

Exports of fertilizers and fertilizer materials in November, 1945, continued the sharp rise which had been so pronounced in recent months. Export tonnage in the month was 52 percent larger than in November, 1944. This followed increases of 47 percent in October, 31 percent in September and 120 percent in August over the same periods of 1944.

## Nitrogenates

**Ammonia Sulphate**—Definitely short through cutback in production as a result of steel strike and causing considerable concern to fertilizer mixers. Seasonal expansion in demand for mixed fertilizers is drawing heavily on inventories. December by-product production from coke was 126,775,170 pounds against 119,451,883 pounds in the preceding month. Sales in December amounted to 115,365,063 pounds. Stocks on December 31 were 64,327,283 pounds, compared with 52,008,607 pounds at the end of November. Steel production last week was 5.5 percent against 79.5 percent for the corresponding week in January. Importations of sulphate of ammonia in November were 10,770 tons.

**Castor Pomace**—OPA has granted new ceilings of $4.75 per unit of ammonia in the Western half of the United States, up from $4.50 per unit, and $3.15 per unit of ammonia in the Eastern half of the country, up from $2.90. Fertilizer manufacturers using this material for mixing will be required to absorb the increases. However, on retailers' sales in its original form, the increased cost will be passed on to the farmer.

**Nitrogen Solutions**—In heavy demand and being used by mixers to offset the shortage of sulphate of ammonia where possible. Supply tight but some available.

**Soda Nitrate**—Supply position has tightened under a constantly increasing demand. Buyers have experienced difficulty in securing additional quantities for prompt shipment.

## Phosphates

**Phosphate Rock**—Demand from acidulators continued at a high level with production under pressure to meet requirements. Domestic shipments, combined with those for export, have kept the supply situation tight. Exports for November amounted to 53,128 tons. Over half of this tonnage went to Australia and New Zealand. The total included 15,413 tons of high grade hard rock, 20,416 tons of land pebble and 17,299 tons of other grades. The total amount exported in November, 1944, was 52,754 tons, mostly land pebble.

### *Market Trends*

**Prices Advanced**

None

**Prices Reduced**

None

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 71.8 | 71.8 | 71.8 | 71.8 |

*(For Current Prices see page 9)*

**Superphosphate** — Steady shipments to mixers to meet seasonal requirements have held the market in a tight supply position, while export demand has added pressure to production. Exports of normal in November amounted to 28,925 tons and 6,400 tons of concentrated. This was more than 25,000 tons above the amount shipped out in November, 1944. Bureau of the Census placed December production at 593,089 tons of normal, 23,484 tons of concentrated, and 4,121 tons of wet-base against 651,449 tons of normal, 24,893 tons of concentrated, and 4,341 tons of wet-base in November. Stocks on December 31 were 807,632 tons of normal, 32,556 tons of concentrated, and 15,577 tons of wet-base, compared with 802,765 tons of normal, 33,602 tons of concentrated, and 11,771 tons of wet-base at the end of November.

## Potashes

Deliveries of agricultural potash salts of domestic origin established an alltime record in 1945. The total represents 868,186 tons of muriate. Production has been maintained at peak levels and is heavily sold through this and next month. Total exports of muriate in November amounted to 7,477 tons and 943 tons of other grades. For the corresponding month in 1944 exports were 10,106 tons of muriate and 1,887 tons of other grades. One of the largest potash companies in the Western Ukraine has resumed operations, according to the Soviet press. This is the second potash company to be restored in the Ukraine.

Potash fertilizer supply position in the United Kingdom is expected to remain difficult in 1946, according to the Ministry of Agriculture. Even in the second half of the year, the situation may not improve greatly, it is stated.

## Insecticides

Production of calcium arsenate, lead arsenate and paris green has been increasing inventories for seasonal shipments, but the output of copper sulphate has been cutback by labor disturbances at one of the major producing plants. DDT is in somewhat better shape with output averaging over 3,000,000 pounds a month and there appears to be sufficient cryolite in sight. The outlook for the coaltar insecticides continues uncertain as production has been brought to a lower level by the steel strike. Paradichlorobenzene was short before the strike and is shorter now. Creosote and dip oils are about in the same position.

Experiments have been conducted in Liberia during the past year with the cultivation of derris. Promising results have been obtained and propagation stock is being made available to extend producing areas. The material has not yet been processed, however, on a commercial basis.

## Sulphur and Pyrites

December completed the most active year in the history of the domestic sulphur industry, according to the Bureau of Mines. Production and mine shipments established all-time records. Shipments declined somewhat after the Japanese surrender, but production continued at record levels. December output was 331,843 long tons, compared with 323,738 tons in November and 280,580 tons in December 1944. The monthly average in 1945 was 312,766 tons against 268,180 tons in the preceding year. Stocks on December 31 were 4,003,917 tons, compared with 3,916,334 tons at the end of November and 4,100,320 tons at the close of December 1944. Pyrites found an outlet to regular consumers. There was no change in prices.

*For Late Market Developments, See Page 4*

DOW
IMPORTANT CHEMICAL
*Intermediate*
MONOCHLORACETIC ACID
Valuable Tool in the Development of New Pharmaceutical Preparations
THE DOW CHEMICAL COMPANY
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Texas Yellow—Refined Flowers of Sulphur
Sulphur Insecticide Mixtures
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Large stocks carried at all times, permitting prompt shipments . . . Uniformly high purity of 99½% or better . . . Free of arsenic, selenium and tellurium.
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THE BARRETT DIVISION
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The Unexcelled Fertilizer Conditioner used by Leaders in the Industry
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A PRODUCT OF NEW MEXICO U.S.A.
MURIATE OF POTASH 62/63% K2O ALSO 50% K2O
MANURE SALTS 22% K2O MINIMUM
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UNITED STATES POTASH COMPANY
Incorporated
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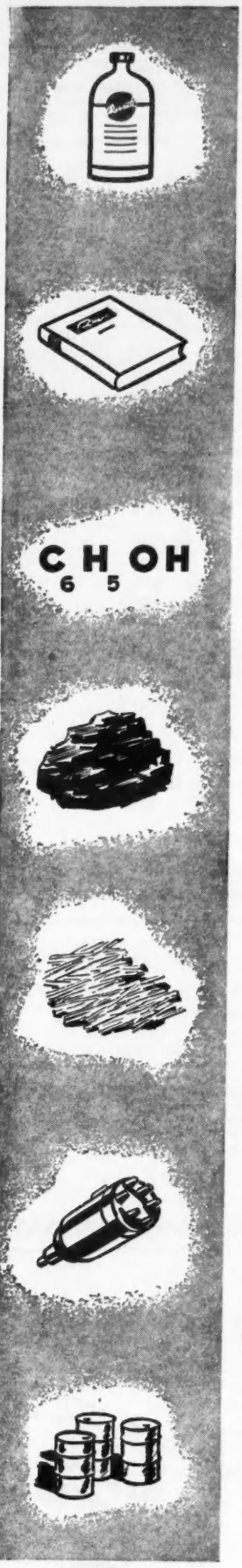
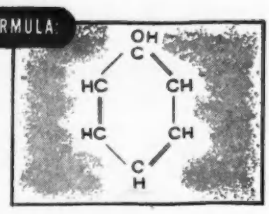
# PHENOL




**DEFINITION:** Phenol is a weak acid derived from benzene through the replacement of one hydrogen atom of benzene by the hydroxyl group. It is the simplest member of one of the most important groups of compounds in organic chemistry. Also known as hydroxybenzene, and carbolic acid.

**HISTORY:** Phenol was discovered in coal-tar by Runge in 1834; Laurent first obtained it in pure crystalline condition in 1841 and named it phenic acid.

**FORMULA:**




**SOURCES:** The first commercial source was that fraction of coal-tar which distills approximately from 160°-220°C. This is still an important source but the largest portion of U. S. production is now made synthetically from benzene. Also found in nature as a degradation product of proteins. The proportion of phenol in coal-tar ranges from 0.1% to 1.0%.

**CHARACTERISTICS:** Chemically pure phenol forms clear, hygroscopic needle-like crystals having a sweet odor. If even slightly impure it assumes a pink color. It dissolves in water and most organic solvents. It is strongly caustic to the skin.

**USES:** Phenol is used in the manufacture of dyestuffs; in mixtures with cresol for refining lubricating oils; for manufacture of picric acid and other chemicals; also in preparation of medicinal products. Principal use is in phenol-formaldehyde resins for plastics, molding compounds and other synthetic resins.

**GRADES:** U.S.P. (Natural and Synthetic), pure white crystalline with 40°C minimum m.p.; Technical-light colored, 97% phenol content, with 39° minimum m.p.; Technical—90-92% phenol, minimum m.p. 36°C; Technical—82-84% phenol, minimum m.p. 30.5°C. All grades also sold in liquid form containing 8-15% water.

*This is one of a series of advertisements presenting information on basic coal-tar chemicals.*

Awarded to the men and women of the Barrett Frankford Chemical's plant for excellence in the production of war materials.

**THE BARRETT DIVISION**
ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street, New York 6, N. Y.
The Barrett Company, Ltd., 5551 St. Hubert Street, Montreal, Que.
*ONE OF AMERICA'S GREAT BASIC BUSINESSES*

# Coaltar Chemicals

Labor disturbances in the steel industry have left their mark and output of coaltar chemicals has continued to decline. The steel production ratio last week was 5.5 percent of ingot capacity. Under such conditions, the current coke production is confined to the independent steel mills and the public utilities companies. Consumers who hold contracts for coaltar chemicals have been allocated material, but inventories are being lowered and the general market has tightened in all departments. The overall consuming demand has continued active, but unsatisfied. Crude and refined naphthalene have been brought to a decidedly low level. The reduction in crude supplies has affected the output of phthalic anhydride and the vanishing benzol reserves have placed a limit on the amount of anilin oil that can be made. Cresols and cresylic acid are about as tight as at any time on record. Synthetic phenol appeared to move in better volume than some of the other products, possibly because inventories were somewhat larger than generally expected. It will be sometime before coaltar production can be resumed after the steel strike is settled and prospects are clouded enough to create considerable uncertainty as to the date that replenishment of stocks can take place.

Steel operations for the week beginning February 11 were scheduled at 5.5 percent of ingot capacity, compared with 5.8 percent in the previous week, according to the American Iron and Steel Institute. A month ago the indicated rate was 79.5 percent. The present schedule is equivalent to the production of 96,000 net tons of steel ingots and castings, compared with 106,200 tons in the preceding week and 1,673,900 tons for the corresponding week in 1945.

Production and stock figures appearing in some of the following market reports were released by the Bureau of Mines and refer to by-products from coke.

## Basic Products

**Benzol**—Buying has become more difficult as the supply tightens. The policy of allocating material to regular customers has not been abandoned. December production of the motor grade amounted to 4,812,492 gallons, compared with 3,728,768 gallons in the preceding month. Production in 1945 was 28,173,199 gallons against 18,556,555 gallons in 1944. December output of nitration was 2,767,710 gallons compared with 3,272,777 gallons in November. Total production in 1945 was 39,282,535 gallons, against 41,285,824 gallons in 1944. Production of industrial pure 2 degrees was 5,893,007 gallons in December against 5,549,071 gallons in November. Total output for 1945 was 86,493,978 gallons, compared with 102,436,501 gallons in 1944. Stocks at the end of December were 2,888,549 gallons of motor, 2,735,704 gallons of nitration and 4,652,146 gallons of industrial pure.

**Coaltar**—Production of crude coaltar in December amounted to 58,298,640 gallons, compared with 53,936,783 gallons in the preceding month. Total production in 1945 was 695,891,947 gallons against 767,807,171 gallons in 1944. Stocks at the end of the year were 30,965,198 gallons against 28,623,763 gallons on November 30.

**Creosote Oil**—Supply position definitely tight and getting tighter. December production was 2,364,237 gallons, against 2,848,377 gallons in November. Production in 1945 was 35,342,391 gallons, compared with 43,779,321 gallons in 1944. Stocks on December 31 were 974,958 gallons against 852,335 gallons at the end of November.

**Cresylic Acid**—Available stocks are definitely short with consuming demand active. No improvement in sight at present and there is not enough material around to meet plastic requirements.

**Naphthalene**—Supplies of crude and refined shorter than in the previous week. Market position definitely tight. December production of less than 74 degrees was 2,669,403 pounds against 2,554,299 pounds in November. Production in 1945 was 34,407,119 pounds, compared with 45,932,235 pounds in 1944. Production of 74 and less than 79 degrees was 4,366,969 pounds in December against 4,406,626 pounds in November. Production in 1945 was 53,166,345 pounds, compared with 57,108,788 pounds in 1944. Stocks of less than 74 degrees were 2,039,430 pounds on December 31 and there were 855,990 pounds of 74 and under 79 degrees.

**Phenol**—Shipments confined almost entirely to regular consumers. Plastic demands active and market position was tighter than a week ago owing to the drain on inventories.

**Pyridine**—Production was lower in December. Output of crude was 29,087 gallons and refined registered 4,581 gallons. November production was 38,089 gallons of crude and 5,562 gallons of refined. Total production of crude in 1945 was 458,469 gallons and refined 105,865 gallons.

**Toluol**—Stocks have been reduced but material remained available. Production of nitration 1 degree in December was 1,313,070 gallons against 1,229,307 gallons in the preceding month. Output of industrial pure 2 degrees was 222,510 gallons, compared with 251,490 gallons in November. Total production of nitration in 1945 was 23,802,547 gallons, and 2,263,556 gallons of industrial pure. Stocks on December 31 were 1,934,910 gallons of nitration and 335,127 gallons of industrial pure. The policy of disposing of 17,692,000 gallons held by the government will be found elsewhere in this issue.

**Xylol**—Supply shorter than previous week and market in definitely tight position. December production, including all grades, was 574,252 gallons, compared with 631,519 gallons in November. Total production for 1945 was 7,557,545 gallons, compared with 8,668,740 gallons in the preceding year. Stocks on December 31 were 108,882 gallons against 59,755 gallons at the close of the previous month.

*Chicago, Feb.* 15.—Call for coaltar base materials has continued rather active, with a moderately good state of balance indicated between demand and supply. Inquiry was active for benzol, and orders showed a fairly large volume. Ruling prices exclusive of tax were:—Benzol, pure, in tankcars, freight allowed 15c. per gallon; 10-degree xylol, same basis, 29c.; industrial xylol, same basis, 26c.; 2-degree toluol, same basis, 27c.; solvent naphtha, same basis, 27c.; creosote oil, grade 1, 15½c.

## Hydrogenated Solvents

Supply situation was somewhat tighter, although cyclohexanol, cyclohexanone and cyclohexane were moving to regular consumers. The outlook carries the same degree of uncertainty characteristic to other coaltar chemicals. Production is based on the availability of crude of materials.

## Coaltar Acids

**Anthranilic** — Shipments confined mostly to manufacturers of chemicals, dyestuffs and other regular consumers. Supply position tight with little resale stock available.

**Broenner's**—Seemed to be enough to meet requirements of regular consumers but there were no surplus stocks to take care of additional orders.

**Fumaric**—Not enough of this acid being produced to meet the full requirements for laminating resins and protective coatings. Buying interest has been somewhat modified by labor difficulties in the consuming industries but is expected to increase shortly.

**H**—Producers are not in a position to accept new business at the present time, although a good demand was reported from the dyestuff trade. Resale lots have been exceedingly scarce in the open market.

**Maleic**—Supply of the anhydrous

*For Late Market Developments. See Page 4*

## *Market Trends*

**Prices Advanced**

None

**Prices Reduced**

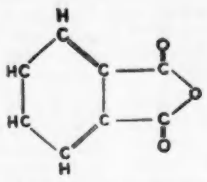
None

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 127.3 | 127.3 | 127.3 | 129.2 |

*(For Current Prices see page 9)*

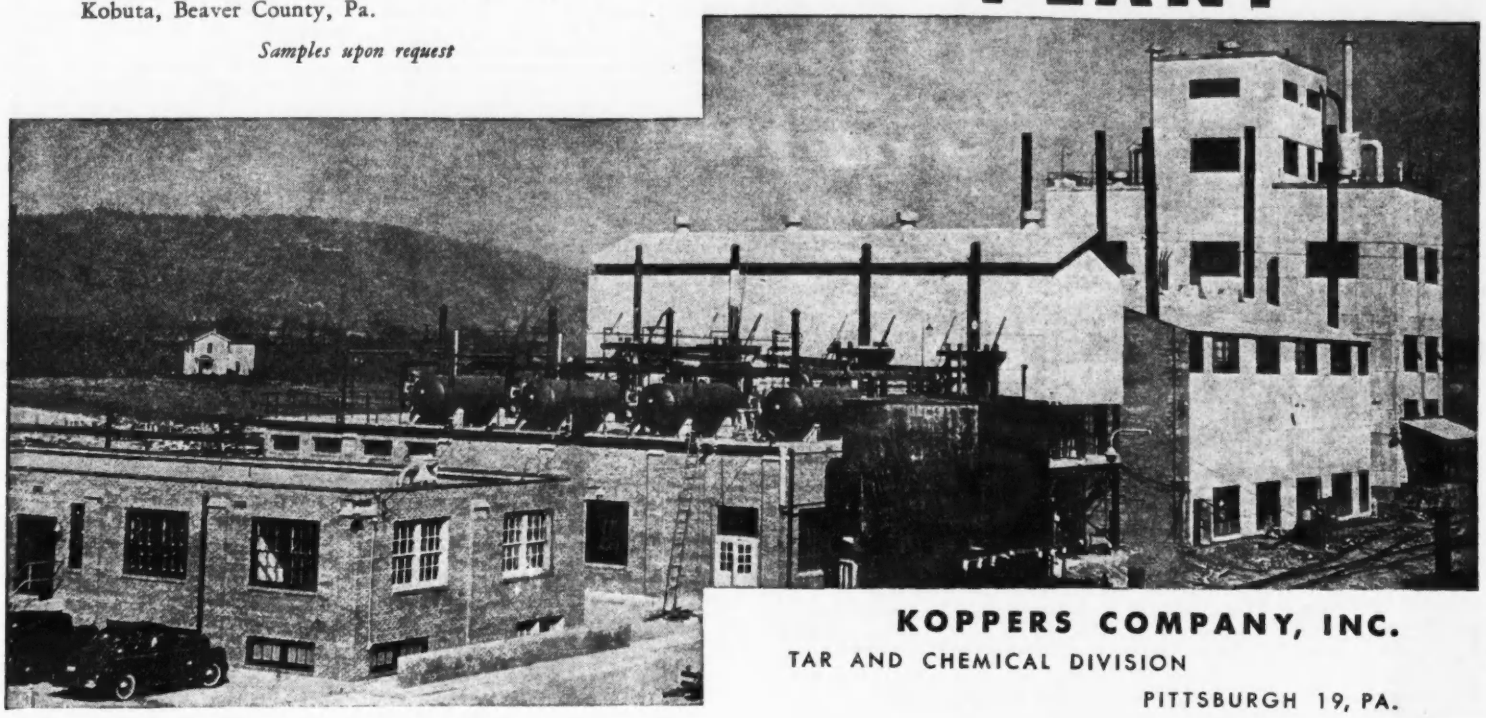


This modern chemical plant is ready to ship phthalic anhydride in barrels and multi-wall paper bags from Kobuta, Beaver County, Pa.

*Samples upon request*

# KOPPERS NEW *Phthalic Anhydride* PLANT

OPD—2-18-1946 49



**KOPPERS COMPANY, INC.**
TAR AND CHEMICAL DIVISION
PITTSBURGH 19, PA.


grade has remained definitely tight. Current output has been taken readily for use in the production of protective coatings and synthetic resins.

## Other Intermediates

**Anilin**—Benzol conditions are not of a character to warrant a heavy production of anilin oil at present. The supply has tightened with the movement confined mostly to regular customers.

**Cresols**—In short supply which has made buying difficult. Like cresylic acid inventories have been drained and the market position for all grades is definitely tight.

**Diethylanilin**—Market position tighter than a week ago. Maintenance of production depends on the availability of anilin.

**Dinitrophenol**—Production regulated by the amount of phenol obtainable. Regular consumers are getting the preference at present.

**Paradichlorobenzene** — Output was considerably behind demand before the steel strike. It is further behind at present.

**Phthalic Anhydride**—Tight position of crude naphthalene has reduced production of phthalic anhydride. According to trade opinions it looked as though some of the larger consumers, including the manufacturers of synthetic resins and plasticizers had built up inventories prior to the steel strike to meet the emergency.

## Coaltar Colors

While the production of coaltar dyestuffs is expected to feel the influence of the cutback in output of intermediates later in the year, little complaint has been heard over short stocks to date. According to some manufacturers, inventories have been sufficient to meet the domestic demand, although the steadily increasing inquiry for export has not been satisfied. Production has been geared to meet the prospective increase in home consumption but the carrying out of this program will depend upon the availability of the intermediates essential to the manufacture of dyestuffs.

## *Toluene Stockpile*

*—Continued from page 3*

In order to make certain that the instructions are carried out, the regional offices are directed to submit all offers to purchase for "new uses" to Washington for approval prior to completion of sale.

The prices at which the toluene is to be sold are set out in the instructions as follows:—a notation is made that in the case of purchases for a "new use" the agency will entertain offers below the prices specified).

| | 1,000,000 gal. | 500,000 to 999,000 gal. | 80,000 to 499,999 gal. | Less than 80,000 gal. minimum 1 car |
|---|---|---|---|---|
| For export.... | $0.23 | $0.24 | $0.25 | $0.26 |
| For new uses. | .23 | .24 | .25 | .26 |
| For motor fuel additive or blending agent ..... | .10 | .11 | .12 | .12 |

The above prices for export or "new use" are for tank carloads delivered to destination. Firm acceptance of orders are further dependent upon either the existence of an equitable competitive freight rate, or the ability of the seller to obtain one. The prices for use as a motor fuel additive are f.o.b. location.

The following is the location of the government's inventories of toluene and the amount held:—

Birmingham, Ala., 740,000 gallons; Billington, Tenn., 270,000 gallons; Joliet, Ill., 1,890,000 gallons; Paducah, Ky., 800,000 gallons; Meadville, Pa., 1,400,000 gallons; Marshall, Tex., 700,000 gallons; Pryor, Ohio, 420,000 gallons; Sandusky, Ohio, 870,000 gallons; Chattanooga, Tenn., 1,100,000 gallons; Weldon Springs, Mo., 1,900,000 gallons; Radford, Va., 2,000 gallons; Baytown, Tex., 4,800,000 gallons; Texas City, Tex. 1,600,000 gallons; Point Pleasant, W. Va., 1,200,000 gallons.

### Distribution Costs Analyzed

Opportunities for reducing costs, lowering prices and increasing profits in marketing are at least as great as those which resulted from scientific management in the production field, according to a booklet on "Distribution Cost Analysis," published by the Department of Commerce. The booklet may be obtained from the Superintendent of Documents, Washington 25, D. C., or from any of the Department of Commerce Field Offices, for 15 cents per copy.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## Jayhawk Ordnance Works Leased for 10 Yrs.

*OPD Washington Bureau*

First of the government-owned synthetic ammonia plants to be leased to private industry on a long-term basis to continue the production of ammonium nitrate, and to produce methanol and other products, is expected to be announced shortly with the signing of a contract by Military Chemical Works, Inc., for operation of the Jayhawk Ordnance Works at Baxter Springs, Kan.

It was learned that the agreement which has been under negotiation for a number of months has been virtually completed, except for a few details, and will provide for leasing the plant to Military Chemical for a period of ten years, with an option to renew at the end of that period for another five years. The lease would begin after a one-year period allowed for certain construction work to be done at the plant.

Military Chemical Works, Inc., operated the plant during the war for the production of synthetic ammonia, ammonium nitrate, nitric acid and other explosive ingredients. It also turned out considerable quantities of ammonium nitrate in granular form for use in agriculture as a fertilizer.

There are no figures available on the production goals of the operators, but is understood that they plan to enlarge the graining facilities at the plant in order to produce greater quantities of granular ammonium nitrate than during the war. Additional graining facilities are to be installed during the one year period prior to the running of the lease as well as facilities to enable the company to turn out "some" methanol. Production of nitric acid is also believed to be probable.

The Jayhawk Ordnance Works is one of the larger of the several government-owned synthetic ammonia plants. It cost approximately $29,100,000 to build, has an annual designed rated nitrogen capacity of 89,000 tons and an ultimate nitrogen capacity of 131,200 tons. During the war there were some months when it actually exceeded the ultimate nitrogen capacity by as much as 1,800 tons.

This plant is also one of three of the government-owned synthetic ammonia plants which were equipped with facilities for the production of nitric acid. According to the report of the Surplus Property Administration on surplus chemical plants and facilities, this plant was able to turn out 350 tons daily or weak nitric acid.

**Pepsi-Cola Company,** New York, has named Bryan Houston vice-president and general sales manager.

## Alcohol, Solvents Plants Offered by WAC

*OPD Washington Bureau*

The War Assets Corporation is offering for sale or for lease a plant designed to salvage distillers' fine grain solvents to be used in cattle feed, and an alcohol plant. Both projects were operated during the war by the Publicker Commercial Alcohol Company, Philadelphia, Pa.

The grain salvage plant, occupying 3.8 acres of leased land on Delaware and Packer avenues, Philadelphia, was constructed at a cost of $7,780,000. The alcohol plant was built by the government at a cost of $5,314,000 and is located on 4 acres at Delaware avenue and Packer avenue. The plant equipment was designed to process grain up to the fermentation stage and includes dust collectors, scale feeders, magnetic separators, heavy duty malt mills, gyratory sifters, deep roller mills, rotary steam dryers, conveyors and bucket elevators.

## Soft Drink Exposition Postponed Until 1947

The American Bottlers of Carbonated Beverages has postponed the first post-war exposition of plant equipment for the soft-drink industry until the Fall of 1947 because of reconvension difficulties experienced by the machinery manufacturers and continued low production of such beverages as a result of sugar rationing.

## Du Pont To Build New Plant For Nitrocellulose Output

E. I. du Pont de Nemours & Co., Wilmington, Del., will erect a new $1,000,000 unit at its Carney Point, N. J., plant, for the production of pyroxylin type of nitrocellulose. Operation will begin by the end of 1946.

## *Trade Briefs*

**McCormick & Co.,** food products and insecticides manufacturer, Baltimore, has elected Bernard Weiser, sales research executive, to the senior board of directors.

**American Plastics Corporation,** New York, has elected Simon Askin, assistant secretary of the Heyden Chemical Corporation, New York, to the board of directors.

**General Box Company,** Chicago, has named N. A. Fowler, vice-president and director of research, as successor to E. E. Ames, director of sales, who will retire July 1, 1946.

**Hercules Powder Company,** Wilmington, Del., is issuing a new textbook on 'Thanite,' 'DDT,' and derivatives and combinations of both these insecticide concentrates.

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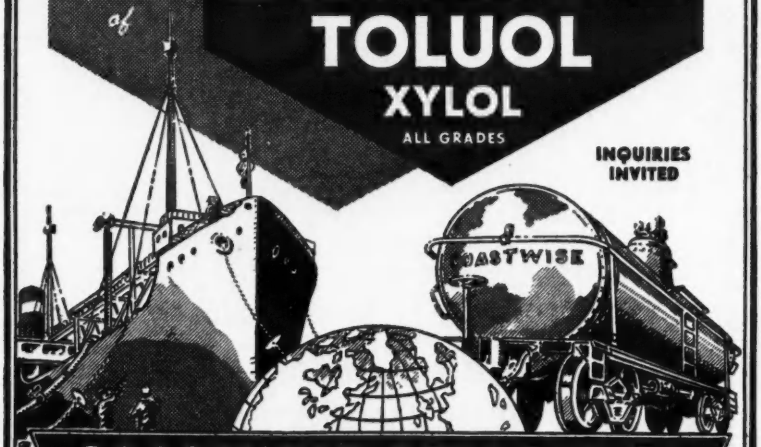


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# Textile and Leather Chemicals

While tanners continued to show an active interest in tanstuffs replacements for the next few months, business was restricted during the week because of the scarcity of offerings from points of origin. In fact, offerings for shipments were conspicuous by their absence with the result that numerous orders in the market were unfilled. An urgent demand for quebracho extract continued to feature the market. Offerings for shipment were difficult to obtain, because of the reported sold up quotas. Divi divi was in a firm position and scarce for shipment. Myrobalans were firmly held at primary sources, with sellers showing little interest at current levels. Reports from Africa indicated no stocks available of wattle bark and extract for prompt and nearby shipment.

Conditions in the sizing materials market continued tight during the week. Labor troubles still affected the production of corn derivatives and a large backlog of orders was being built up. Little of new interest transpired in tapioca flour, moderate arrivals of old crop from Brazil were disposed of against contracts placed months ago. Production of potato starch was sold well ahead. Trading was spotty, owing to light offerings. Scanty supplies on the spot of egg albumen and egg yolk limited business to small lots. Inquiry for this season's production was fairly active and deliveries of sizable quantities were expected to start early in March.

An increase averaging two and a half shillings, about 40c., per dozen skins in the importer's ceiling prices of pickled sheep and lamb skins imported from New Zealand became effective February 7 it was announced by OPA.

## Chemicals

**Alumina Acetate**—Business was restricted to small lots for actual requirements. Market was unchanged and steady.

**Bichromates**—An urgent request against contracts continued to absorb the bulk of production. Market remains firm at ceilings. Owing to the scarcity of surplus stocks, an active export demand was unsatisfied.

**Sulphonated Oils**—Supply conditions in this market continued tight. Scarcity of castor and fish oils has compelled consumers to substitute other oils. Demand was urgent with trading restricted to small lots. December consumption of sulphonated castor oil totaled 517,000 pounds and stocks were reported at 904,000 pounds, December 31.

**Soda Hydrosulphite**—This market was steady under a good demand for delivery on previous contracts. Prices were well maintained at former levels.

**Zinc Dust** — Fair-sized quantities were moving into consumption on former orders. Quotations were firm and unchanged.

## Dyestuffs

**Cochineal**—Small lot trading was noted during the week. Limited stocks on the spot, were firm and reflected the high cost of replacements.

**Madder**—Demand was spasmodic and confined to small quantities for immediate delivery.

## Sizing Materials

**Albumen Blood**—Routine demand was noted during the week. Withdrawals on previous orders were in steady demand. Supplies were adequate to cover the present demand. Inquiry for nearby needs was more active. Prices were unchanged. Dried soluble blood was quiet.

**Albumen Egg**—Business was quiet, though inquiry was active. Low supplies continued to restrict offerings. Prices were firmly maintained at ceilings. A sale of 365 pounds of technical crystal egg albumen was made at $1.25 per pound, in 5-lb. containers, f.o.b. Albany, N. Y., by the Department of Agriculture, January 18. Production was expected to start shortly in the Southwest.

### *Market Trends*

**Prices Advanced**

None

**Prices Reduced**

None

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 299.4 | 299.4 | 308.0 | 284.6 |

*(For Current Prices see page 9)*

**Dextrin Corn**—Consumers continued to experience difficulty in obtaining supplies, owing to the light production. The strike at a leading processors mills was still in progress and affected the output. Other producers were not offering and limited sales to regular customers. Market was firm at ceilings.

**Egg Yolk**—An urgent demand continued unsatisfied owing to the scarcity of supplies. Trading was confined to small lots for immediate delivery at ceilings. Domestic demand for eggs in 1946 will remain strong, reflecting the continuation of a high level consuming demand. Per capita consumption of eggs in 1946 at or near support price levels is expected to be below 1945, but will be larger than any earlier year, according to the Bureau of Agricultural Economics.

**Starch Corn**—Production continued curtailed by the strike in progress during the past five weeks. Demand was urgent and unsatisfied. Mills in operations were restricted deliveries to regular customers. Prices were firm at ceilings. Corn receipts were more liberal. Visible supply of corn for the week ended February 9 increased 3,211,000 bushels to 17,988,000 bushels, according to the Chicago Board of Trade.

**Starch Potato**—Withdrawals against contracts continued active. Buying interest was keen, though limited offerings resulted in spasmodic trading. Production was reported sold well ahead.

**Tapioca Flour**—In the absence of supplies, activity in this market was confined to the delivery of arrivals of old crop material from Brazil against prior contracts. Receipts from Brazil totaled 8,460 bags during the week.

## Tanning Materials

**Chestnut Extract**—Deliveries against former orders, were in urgent request. Scarcity of material restricted sales to small lots. Prices were firm at ceilings.

**Divi Divi**—Consuming inquiry was keen, though trading was light owing the scarcity of offerings for shipment from points of origin. Quotations were unchanged and firmly maintained. Arrivals were rated at 5,150 bags, consigned against former orders.

**Hematine Extract** — Withdrawals against former orders were in good demand. New business was moderate at former levels.

**Mangrove Bark**—This market was firm with offerings for shipment well held. Trading was quiet, though tanners showed a good inquiry. Quotations were maintained at current levels.

**Myrobalans**—A good inquiry was noted for nearby and forward delivery, but offerings for shipment were scanty and trading was quiet. Primary markets were firm at current levels. Arrivals at New York were noted at 1,839 bags during the week, for delivery on prior contracts.

**Quebracho Extract**—Firm conditions continued to feature this market. Inquiry was keen for nearby and forward requirements, while offerings from points of origin were limited. It was reported that European buyers were in the market for additional commitments and were making purchases at prices above our ceilings. Arrivals totaled 21,519 bags at New York for consignment to tanners on previous orders.

**Wattle Bark**—While business was reported slow, inquiry was active for both bark and extract. Reports from Africa indicated a scarcity of available supplies especially for prompt and nearby shipment. Last offerings of extract heard was for May shipment from Africa at ceilings. Many orders were said to be unfilled.

*For Late Market Developments. See Page 4*


ALBUMENS

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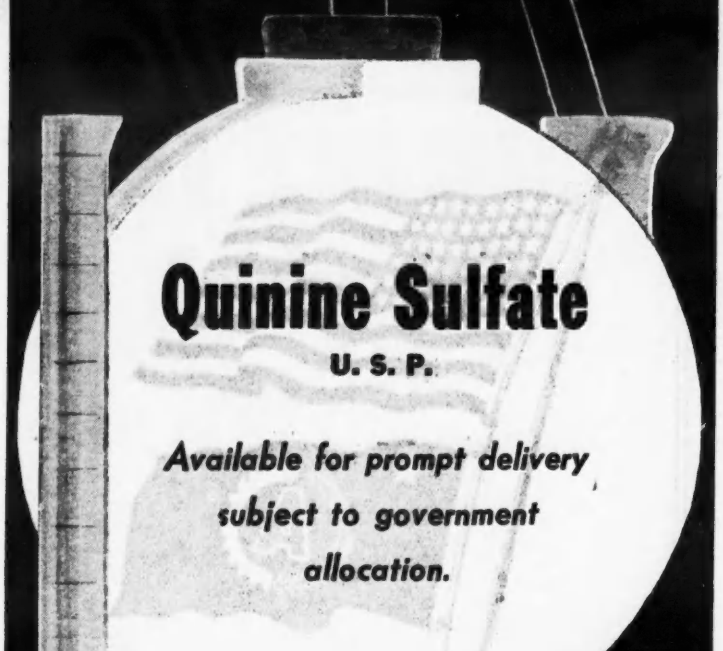

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# Drugs and Fine Chemicals

Drugs and fine chemicals were in very steady request throughout the past week. Volume was well up to that in recent weeks and the call was well sprinkled over the entire group of materials. Prices were mainly well stabilized and price competition was inconsiderable most of the time.

Special demand for seasonal articles showed a normal tendency toward decrease. The fact that Winter is about two-thirds over was reason enough for demand coming from wholesale distributors to show some contraction.

Menthol underwent a modest amount of price recovery on spot, reacting to the extent or producing values more in line with the prevailing cost to replace in the Brazilian market. Quicksilver seemed to have become steadier, causing derived products to hold in well maintained position. Danger of Italian competition in some mercurials seemed to be remote.

The report of December statistics compiled by the Alcohol Tax Unit of the Bureau of Internal Revenue Showed production of ethyl and specially denatured alcohol to be sharply below that in December, 1944. Output of completely denatured alcohol was larger. Stocks of ethyl, completely denatured, and specially denatured alcohol were smaller than a year ago.

Castor oil manufacturers on February 14 received permission of the Office of Price Administration to advance their prices on February 18. This followed negotiation of castor bean prices with Brazil and the price of beans was made c.i.f. first American port of point of arrival.

**Acid, Citric**—Demand was very good and promised to improve with the advent of Spring. The supply situation has improved considerably but it was learned last week that at least one manufacturer of a citric acid substitute expects to offer definite competition to the sellers of citric acid since his costs and the savings his product affords consumers will make his prices comparatively attractive.

**Acid, Tartaric**—During the past week arrivals of acid from Barcelona, Spain, totaled 2,280 barrels. Also, 1,500 bags of argols reached here from Buenos Aires. Sellers of imported acid undersold the domestic manufac urers at times and the market expects to see this competition between foreign and domestic acid an increasing factor.

**Alcohol**—The Alcohol Tax Unit of the Bureau of Internal Revenue released comparative statistics on pure and denatured ethyl alcohol for the month of December. Louisiana was the State producing the largest individual quantity of ethyl alcohol, but West Virginia ran that State a close second. Indiana was third in the total produced. In completely denatured alcohol, Pennsylvania led other producing States by a wide margin. Indiana was second. In specially denatured alcohol, West Virginia was the largest producer, followed by Louisiana and New Jersey, respectively. Comparative data follow:—

**Alcohol Data: Dec.**

| | Proof gallons 1945 | Proof gallons 1944 |
|---|---|---|
| **Production—** | | |
| Ethyl | 23,782,300 | 57,053,763 |
| Completely denatured | 1,475,257 | 676,433 |
| Specially denatured | 10,873,464 | 35,054,371 |
| | **Wine gallons 1945** | **Wine gallons 1944** |
| **Withdrawals—** | | |
| Ethyl, tax paid | 7,297,979 | 7,308,578 |
| tax free | 45,520,342 | 88,869,703 |
| Completely denatured | 1,475,120 | 724,096 |
| Specially denatured | 11,277,953 | 35,658,665 |
| **Stocks—** | | |
| Ethyl | 111,493,148 | 126,619,616 |
| Completely denatured | 47,943 | 82,342 |
| Specially denatured | 18,348,226 | 20,190,280 |

**Aloin**—Reserves were moderate in size, being kept probably below normal by the insufficiency of raw material imports from whatever source. Prices for aloin were very firm and demand was reported to be normal.

**Ammonia Chloride** — Consumption of U.S.P. material has run to excellent totals this Winter. Wide spread coryza has thrived more heartily than usual and the consumption of this remedial assistant has been correspondingly stimulated.

**Barium Sulphate**—All controls have been removed from this article. Supplies appear ample to cope with the at present rather routine demand for the article used for X-ray purposes.

**Caffeine** — Further arrivals of anhydrous material were noted last week, the total being 80 barrels from Brazil. Operations at the Brazilian factory producing the article were said to be well maintained and an expanding business with Europe will be attempted. Domestic production of natural caffeine changed little in volume and the output by synthetic means has yet to get underway. During the period, domestic manufacturers received 3,000 bags of teawaste from Calcutta, India.

**Castor Oil**—The Office of Price Administration on February 14 received permission from the Office of Price Administration to advance castor oil prices on February 18. The rise brings prices on No. 1 to 14.30c. per pound and on No. 3 to 14c. The maximum importing price of castor beans was set at $118 per long ton, c.i.f. first American port of point of arrival. The maximum price that expired early in 1944 had been $102.62 per long ton, f.o.b. New York. The most recent quotations from Brazil were about $102 per long ton, f.o.b. Brazilian ports.

Arrivals of beans here last week totaled 7,111,050 pounds, bringing the total arrival since January 1 to 31,559,250 pounds. This compared with 24,008,550 pounds during the corresponding period in 1944.

*Chicago*, Feb. 13.—Castor oil prices are:—Cold press, U.S.P., 13¾c. per pound, returnable drums, carlots; 14½c., drums, less than carlots; 13c., tanks; No. 3, extracted, 13½c. per pound, drums, carlots; 14¼c., drums, less than carlots; 12¾c., tanks.

**Codliver Oil**—If controllable conditions continue to be as satisfactory as they now are, and if those which cannot be controlled by man shall prove propitious, then a good production of codliver oil by the Norwegian and British codliver oil interests may be expected. The spot market contains excellent reserves of U.S.P. oil but the supplies of high-test material are none too plentiful and won't be until Norway shall be able to export such goods.

**Cream of Tartar**—Not too steady at this time. Competition between domestic and imported material was reported active last week and all information from foreign parts suggests a continuation of such competition.

**Ephedrine**—With Winter two-thirds over, producers look forward to continuation of good demand for this item. The call was good last week and contributed added firmness to overall prices.

**Fishliver Oils** — Demand pressed steadily and took production with a promptness that made it difficult to leading suppliers to create a reserve of material. Prices were strongly supported. During the week, 38 drums of sharkliver oil reached here from Buenos Aires.

**Glycerin**—Reports indicate that the soap making industry is working with a cut of 78 percent of the fats and oils used in the base period. Informed quarters do not expect a favorable change in the quota figure because of the world shortage of fats and oils. United States needs will be held down to a bare minimum, in all probability, until foreign needs ease. The prediction that there would be little change in soap supplies this year is based on the probability that, while there will be less soap fats available, producers will make up for lowered output from meager stocks on hand. All of which means that the glycerin refiners cannot hope for a material improvement in the amount of crude glycerin available for refining purposes. It is highly significant that last week 878 drums,

### *Market Trends*

**Prices Advanced**

Castor beans, maximum price, $15.38 per long ton.
Castor oil, cold pressed, U.S.P., 1¼c. per lb.
No. 3, technical, 1¼c. per lb.
Menthol, 10c. per lb.

**Prices Reduced**

None

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 205.8 | 205.5 | 206.7 | 231.6 |

*(For Current Prices see page 9)*


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*For Late Market Developments, See Page 4*

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494-498 HUNTS POINT AVENUE, BRONX 59, N. Y. DAyton 3-7030

probably of crude glycerin, arrived here from Melbourne, Australia, which is a long way to fetch such material.

*Chicago, Feb.* 13. — Glycerin prices are:—C.p., tanks, 18c.; drums, c.l., 18¼c.; l.c.l., 18¾c.; high gravity, tanks, 17¼c. to 18c.; drums, c.l., 17½c. to 18c.; l.c.l., 18c. to 18¾c. Chemically pure, 18c. per pound, tankcars; 18¼c., drums, carlots; 18¾c., drums, less than carlots.

**Gold**—Manufacturers of gold salts probably could get along without knowing that California production of gold in 1945 totaled 172,000 fine ounces, valued at $6,023,000. Amazing that California production should run to such round figures.

**Guaiacol Carbonate**—Winter consumption has run to excellent totals but the trade rather expects that the call will gradually subside from now on. Fair distribution among wholesalers is likely to care for the balance of requirements this season.

**Menthol**—The spot market strengthened moderately when the selling pressure was removed and local values were permitted more closely to reflect the prices prevailing on shipment goods in the primary market. During the period under review arrivals here totaled 351 cases from Santos, Brazil. Local activity was not very brisk.

**Mercurials**—Undertones were generally very steady, in keeping with the basic position of raw material. Some fear of Italian competition in a few mercury derivatives had been felt in the past, but it appears that the Italian industry is badly crippled by the almost chaotic conditions in Italy. Hence, reappearance of Italian mercurials here in competition with domestic production is not expected to pose a problem at an early date.

**Potash Citrate**—The improvement in supplies of basic raw material tended to create the possibility for more ample stocks of this citrate. Deliveries were on a fairly prompt basis.

**Potash Guaiacolsulphonate** — Seasonal demand was almost at an end except for occasional reorders from wholesale distributors. Winter was an excellent season this year during which no surplus of supplies was reported at any time.

**Quicksilver**—The market held very steady. No surplus of importance was in hand and none was in sight. The moderate output of the domestic mines appeared to be well engaged ahead. Foreign market prices topped those of the home producers, thus eliminating most chances for competition from foreign sources.

**Quinine**—The political strife in Java and the participation of British troops in connection therewith was before the Council of the United Nations Organization last week. Holland is reported to have definitely offered a dominion status for the Indonesians, but were given no choice in the matter of adherence to the Kingdom of the Netherlands. The hope is for total independence. Until all this is ironed out, conditions in Java will do little toward rehabilitation of the cinchona bark-quinine industry there and in Holland. Yet it may be that the recent proposal to set up a committee to handle Netherland East Indies products in this country could work toward the freeing of quinine and cinchona trade with the United States.

## *Trade Briefs*

**U. S. Standard Products** Company, pharmaceutical manufacturer, Woodworth, Wis., has issued a catalogue of products and prices.

**Pierce's Proprietaries** Inc., Buffalo, has named Lieutenant Arthur C. Brown, USNR, recently released, as general sales manager.

**Quicksilver** data and maps of the Black Butte mine, Lane County, Ore., are available upon application to the Geological Survey, Washington, D. C.

**Lehn & Fink Products** Corporation, pharmaceutical and cosmetic manufacturer, New York, has appointed Lawrence G. Ives sales promotion manager.

**Leo Slam,** sales manager of the Hema Drug Company, New York, is covering the company's territory as far west as Kansas City on a two-month tour of inspection.

**Commander A. Douglass Brewer,** recently released from active service, has rejoined Ciba Pharmaceutical Products, Summit, N. J., as advertising manager.

## Iodine Research Begun At Battelle Institute

The Battelle Memorial Institute, Columbus, Ohio, has established an extensive research program to industrialize iodine. Sponsored by the Iodine Educational Bureau, N. Y., the research has as its objective the uncovering of those properties of iodine and its compounds which will make the element more useful industrially.

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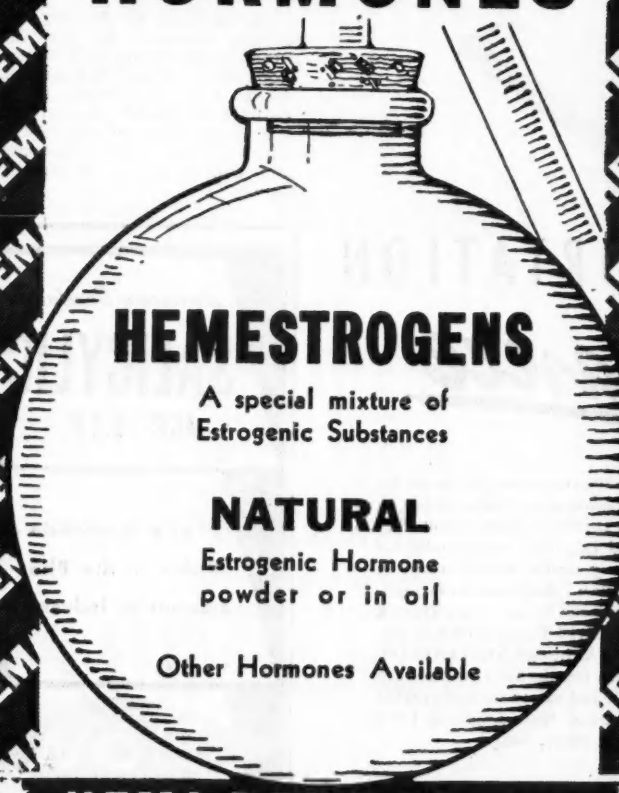

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## Narcotics Bureau Appropriation Increased

*OPD Washington Bureau*

An appropriation of $1,304,000 for the Bureau of Narcotics was provided in the annual supply bill of the Treasury Department for the fiscal year 1947 reported to the house February 11 by the committee on appropriations. This is an increase of $132,000 over the current appropriation, but $31,000 below the amount recommended by the Bureau of the Budget.

During hearings on the bill, Harry J. Anslinger, commissioner of the bureau, testified that there was a drop of about 700 in the number of narcotic cases during 1945, as compared with 1944, due to the shortage of drugs in the illicit market because of the war, but that smuggling of opium continued to run heavy from India, Iran, and Mexico.

Fears that narcotic addiction might show an increase after the war because of the ease by which American soliders could obtain opium abroad, particularly in India and Iran, were discounted by Mr. Anslinger, however, who said that there has been very little evidence of new addicts among returning veterans. He said that the situation will have to be watched carefully, however.

### Drug Firms Donate $29,860 In Medicines for Relief

Pharmaceutical supplies worth $29,860 have been contributed to the Medical and Surgical Relief Committee, in response to its plea for drugs to be sent to war-stricken countries. Among the largest contributors were Abbot Laboratories, Chicago; Chicago Pharmacal Company; Hoffmann-LaRoche, Inc., Nutley, N. J.; International Vitamin Corporation, New York; Lederle Laboratories, Inc., New York; E. R. Squibb & Sons, New York; Upjohn Company, Kalamazoo, Mich.; Walker Vitamin Products, Inc., Mount Vernon, N. Y., and Winthrop Products, Inc., New York.

### M.L. Moore Named Assistant To Research Vice-President

Dr. Maurice L. Moore, director of organic research for the Frederick Stearns & Co. Division of Sterling Drug, Inc., Detroit, has been appointed assistant to Dr. Melville Sahyun, vice-president in charge of research.

### Stearns & Co. Takes Over Fairchild Line

The Frederick Stearns & Co. Division of Sterling Drug, Inc., Detroit, has taken over the manufacture and distribution of all but three products of Fairchild Brothers & Foster, pharmaceutical manufacturer, New York. The three exceptions, which will be manufactured and distributed by the Winthrop Chemical Company, New York, are "Marinol," "pHisoderm" and "enzymol."

### Ames Appoints Larkum As Medical Director

Dr. Newton W. Larkum has been appointed medical director for Ames Company, pharmaceutical manufacturer, Elkhart, Ind. He was a lieutenant colonel in the Army Medical Corps, from which he was discharged recently.

### Ritchie & Janvier Names Glenn Holder President

Glenn Holder has been elected president of Ritchie & Janvier, Inc., sales agent for pharmaceuticals and toiletries, Bloomfield, N. J.

### *Gets Research Post*

**Dr. Philip S. Winnek, formerly director of research for the Pitman-Moore Company, pharmaceutical manufacturer, Indianapolis, has joined the research department of the Commercial Solvents Corporation, Terre Haute, Ind.**

### Vicks Products Div. Shifts Sales and Advertising Staffs

Herman A. High, formerly general sales manager and a director for the Vicks Products Division of Vicks Chemical Company, Wilmington, Del., has been appointed general manager of the division in charge of sales and advertising. Jerome Patterson, also a director, has been named manager of the staff department in advertising, which serves all divisions of the company, including subsidiaries.

Chester H. DuClos has been appointed advertising manager of the products division, with W. T. Malone as assistant. Richard D. Waters, recently discharged from the armed forces, is now sales manager, with Donald E. Livingston, another returned veteran, as assistant Kirby Peake will manage a new merchandising department set up to coordinate sales and advertising programs.

### Pharmaceutical Manufacturers Honor Walter R. Douglas

Walter R. Douglas, sales manager of pharmaceuticals for the United States Rubber Company, New York, was guest of thirty manufacturers of drug sundries at a testimonial dinner in the Advertising Club of New York recently.

### Cheyney Joins Battelle

Dr. LaVerne E. Cheyney, formerly section manager in the Chemical Products Development Division of the Goodyear Tire and Rubber Company, Akron, Ohio, has joined the staff of Battelle Memorial Institute, Columbus, Ohio, where he will be associated with its division of organic chemistry and will specialize in rubber technology.

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## New York Imports

ACID, TARTARIC—1,600 bbls, Enco Chemical Co
400 bbls, Atlantic Freighting Co
280 bbls

ALOE—46 bxs, Wessel, Duval & Co
82 tins, Wessel, Duval & Co

ANGELICA ROOT—20 bls, R J Prentiss & Co

ANTIMONY ORE—2,618 bgs, United States Commercial Co

ARGOLS—1,500 bgs, United States Commercial Co

BABASSU KERNELS—2,499 bgs, General Foods Corp

BALSAM TOLU—100 cs, Magnus, Mabee & Reynard

BEEF EXTRACT—200 cs, Wilson & Co

BONES—1,534 bgs, 153,400 lbs, Baugh & Son
2,795 bgs, 279,500 lbs, Philadelphia National Bank

CAFFEINE, ANHYDROUS—80 bbls, Lo Curto & Funk

CANNABIS INDICA—1 bl, S B Penick & Co

CASHEW KERNELS—590 cs, 29,500 lbs, Wood & Selick
2,000 cs, 100,000 lbs, Bowes & Co
1,035 cs, 51,750 lbs, Sokol & Co
150 cs, 7,500 lbs, I Crab & Co
1,100 cs, 59,500 lbs, Zonobia & Co
297 cs, 14,850 lbs, Finck, Jones & Libby
170 cs, 8,500 lbs, Zaloom & Co
408 cs, 20,400 lbs, Aristocrat Nut Co
629 cs, 31,450 lbs, A L Bazzini & Co
843 cs, 42,150 lbs, A Reggie
1,075 cs, 53,750 lbs, Electric Cooker Sales Co
166 cs, 8,300 lbs, Jacques Missir
300 cs, 15,000 lbs, Pandatean Bros
1,400 cs, 70,000 lbs, W A Higgins & Co
308 cs, 15,400 lbs, Spencer Importing Co
1 200 cs, 60,000 lbs, Mitchel Book Co
2,912 cs, 145,600 lbs, W A Camp & Co
4,088 cs, 204,400 lbs, T M Duche & Son
3,052 cs, 152,600 lbs, Braun Importing Co

CASEIN—2,080 bgs, 222,700 lbs, National Casein Sales Co

CASTOR BEANS—16,500 bgs, 2,484,000 lbs, Spencer Kellogg & Sons
30,847 bgs, 4,627,050 lbs, Baker Castor Oil Co

CHILLIES—276 bgs, National City Bank, Chicago
96 bgs, Public National Bank & Trust Co
25 bgs, Otto Gerdau Co

COTTON LINTERS—522 bls, Kandess Steuber Co
136 bls, J E Bernard & Co
791 bls, Koehler Mfg Co
1,420 bls, Simons Co
1,028 bls

MOTES—251 bls, Williamson Product Co

RESIDUE—191 bls, W T Burnett & Co

COTTONSEED HULL FIBER—1,071 bls, Norton & Ellis

DANDELION ROOT—3 bls, S B Penick & Co

DIDI DIVI—953 bgs, Mecke & Co
4,200 bgs, Guaranty Trust Co

DYES, ANILIN—80 bbls, Geigy Co

EUPHORBIA—96 bls, Parke Davis & Co

FIRE CLAY—295 bgs, Eagle Pencil Co

GALEGA HERBS—3 bls, S B Penick & Co

GENTIAN ROOT—103 bgs, Peek & Velsor

GINGER ROOT—2 bgs, Acido Product Co

GLUE, BONE—300 bgs, Transatlantic Animal By-Product Co

HIDE—200 bgs, Transatlantic Animal By-Product Co

GLYCERIN—878 dms, Chase National Bank & Trust Co

GUM—3 cs, Herman Weber Co
PENDARE—83 pkgs, Wessel, Duval & Co
67 bls, Wessel, Duval Co
PERILLA—141 bgs., Chicle Development Co
79 bgs, H A Astlett & Co

HONEY—60 bbls, J G Paton Co

HYOSCYAMUS—25 bls, S B Penick & Co

IPECAC ROOT—4 bls, Wessel, Duval & Co

JABORANDI LEAVES—39 bls, National City Bank

JUNIPER BERRIES—2 bgs, Acido Product Co

KOLA NUTS—280 bgs, D Steengrafe & Co

KYANITE—500 tons, Charles Taylor

MANGANESE ORE—2,000 tons, E J Lavino & Co
1,000 tons, Electro Metallurgical Co

MENTHOL—66 cs, C L Huisking & Co
200 cs, Kachurin Drug Co
60 cs, Parsons & Whittemore
25 cs, R J Prentiss & Co

MICA, BLOCK—263 cs, United States Commercial Co

SPLITTINGS—1,341 cs, United States Commercial Co

MYROBALANS—506 bgs, Hammond & Carpenter
1,333 bgs, Tannin Product Export Co

NUX VOMICA SEED—615 bgs, Volkart Bros

OIL, BABASSU—1,446 dms, United States Commercial Co

CASTOR—250 dms, Woburn Chemical Co
751 dms, Bunge Corp
249 dms, Bate Robinson, Ltd
110 dms, Philadelphia National Bank

LIME—6 cs, Dodge & Olcott Co
2 dms, General Drug Co

OITICICA—223 dms, Brown Linseed Corp

ORANGE—7 cs, J A Manton & Co

ROSEWOOD—6 dms, J Manheimer

SHARK LIVER—38 dms, Wilbur Ellis & Co

VETIVER—2 dms, Dodge & Olcott Co
1 dm, Trubek Laboratories
1 dm, Magnus, Mabee & Reynard
1 dm, Bank of Manhattan Co

ORANGE PEELS—210 bgs, Guaranty Trust Co

PIMENTO—100 bgs, 22,400 lbs, Gerhard & Hey
300 bgs, 42,000 lbs, Wedeman & Godknecht, Inc

QUEBRACHO EXTRACT—8,900 bgs, 1,068,600 lbs, International Product Corp
12,619 bgs, 1,514,280 lbs, Tannin Product Export Co

SAUNDERS WOOD, RED—134 bgs, Peek & Velsor

SHELLAC—1,250 bgs, Gillespie-Rogers-Pyatt Co
450 bgs, Mac Lac Co
100 bgs, Cornelis & Suhr
100 bgs, Dings & Schuster

SHELLAC—1,438 bgs, Wm Diehl Co
100 bgs, United Shellac Corp
60 bgs, Wm Zinsser & Co
150 bgs, Schwab Bros

BUTTONLAC—200 bgs, Cornelis & Suhr
100 bgs, Gillespie-Rogers-Pyatt Co

GARNETLAC—200 bgs, Wm Zinsser & Co

SEEDLAC—550 bgs, Mac Lac Co
362 bgs, Wm Diehl Co
300 bgs, Gillespie-Rogers-Pyatt Co
200 bgs, Parks Co
100 bgs, Cornelis & Suhr

TALC—4,572 bgs, Heyman & Co

TALLOW, VEGETABLE—1,000 cs, Bank of London & South America

TAPIOCA FLOUR—1,067 bgs, 250,050 lbs, Stein, Hall & Co
1,067 bgs, 250,000 lbs, Morningstar-Nicol, Inc
2,000 bgs, 300,000 lbs, Bank of the Manhattan Co
2,135 bgs, 320,250 lbs, Geismar & Co
1,000 bgs, 150,000 lbs

TONKA BEANS—20 bbls, Kennedy, Butcher Co

TEAWASTE—3,000 bgs, Citro Chemical Co

TURMERIC—323 bgs, National City Bank, Chicago

WAX, BEES—326 bgs, E A Bromund Co
95 bgs, Bank of the Manhattan Co
10 bgs, Gillespie & Co

CARNAUBA—160 bgs, American Cyanamid & Chemical Corp
156 bgs, Wessel, Duval & Co
23 bgs, Arnhold Export & Import Co

OURICURY—418 bgs, American Cyanamid & Chemical Corp
89 bgs, Wessel, Duval & Co
94 bgs, Wm M Allison & Co

## Baltimore Imports

GUM TRAGACANTH—300,848 lbs
LICORICE ROOT—33,080 lbs
MOLASSES—16,803,667 lbs
OIL, FUEL—67,100,981 lbs
PETROLEUM, CRUDE—27,471,360 lbs
PHOSPHATE ROCK—5,936,000 lbs
QUINCE SEED—80,950 lbs

## Imports Detained

Detentions recently effected at various ports by United States authorities on determinations by the Food and Drug Administration that products offered for import were adulterated or misbranded under the Federal food, drug and cosmetic act or did not comply with other customs regulations, included the following articles for the reasons stated:—

### New York

**Week Ended February 8**

Aconite leaves and root, 41 bags; insect bored; excess stems.
Anise, 110 bags; filthy.
Chilli powder, 154 bags; filthy.
Chillies, crushed, 2,200 pounds; filthy.
Ginger, seven bags; insect bored.
Hawthorn berries, 19 bags; filthy.
Honey, 50 barrels; filthy.
Laurel leaves, 200 bales; fire damaged.
Licorice root, 231 bags; filthy.
Castor oil, aromatic, nine gallons; not N.F.
Medicinal preparations (four shipments), four parcels; improperly labeled.
Pimento (two shipments), 254 bags; filthy.
Saffron, six cases; excess styles.
Sloeberries, dried, 40 bags; filthy.
Thyme leaves (two shipments), 222 bags; not official variety.
Sassafras oil, 45 drums; not U.S.P.
Water lilly root, dried, one case; insect infested.

### Atlanta

**Week Ended February 8**

Papaya pulp, 100 cans; decomposed.

**Week Ended February 8**

### Buffalo

Cocoa cake, 57 bags; excess cocoa shell.
Medicinal preparations (two shipments), two parcels; improperly labeled.

## Fleischmann Foundation Grants Research Fund

The Marcelle Fleischmann Foundation has granted $20,000 a year for ten years to the department of public health and preventive medicine of Cornell University Medical College, for a study of tropical diseases. The gift will be used to promote the study of immunologic and allergic manifestations of such tropical diseases as malaria, filaria and schistosomiasis, under the direction of Dr. Morton C. Kahn, of the faculty, and a staff of five.

## Colgate-Palmolive Grants $120,000 for Research

The Colgate-Palmolive-Peet Company, Jersey City, N. J., has granted $120,000 for dental research to Northwestern University. The research will be directed by Dr. Leonard S. Fosdick, professor of chemistry at the dental school.

## Bag Storage Data Given

A new booklet, entitled "Important Facts for the Man in Charge of Paper Bag Storage," is being issued by the Bemis Brothers Bag Company, St. Louis. It contains data on the proper methods to follow in caring for paper bag storage and how to restore moisture after the bags have dried out.


# SHEFFIELD Chemurgic Products

## Century-old name in milk
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*This means you now have available milk chemicals outstanding in dependable chemical performance—products of the world's largest dairy—and backed by a rare wealth of experience. With* SHEFFIELD *Milk Chemicals you profit by three substantial advantages: lower cost . . . highest efficiency . . . broader service.*

***"New Process" Casein***★—superior grade industrial casein unusually high in quality and uniformity. Available in 76-lb. multi-wall bags. F.o.b. Norwich, N. Y., Boonville, N. Y., or Vergennes, Vt., as inventory permits shipment. (Gross for Net.)

***"High pH" Casein***★—specially processed casein less acid than "New Process" Casein. Excellent for emulsions and dispersions. Particularly recommended as a protein emulsifier in the production of synthetic rubber and in the emulsifying of synthetic latex. In 76-lb. multi-wall bags. F.o.b. Norwich, N. Y. (Gross for Net.)

***"High Nitrogen" Casein***★—a specially prepared casein particularly free from non-protein impurities. In 76-lb. multi-wall bags. F.o.b. Norwich, N. Y. (Gross for Net.)

***"De Vitaminized" Casein***★—an edible protein of high nutritional value and balance, minimum vitamin content. In 75-lb. multi-wall bags. Freight allowed in continental U. S. A.

***Milk Sugar (Lactose)***—U.S.P. and edible grades. Highest quality products in their respective grades. In 200-lb. wooden barrels. F.o.b. Hobart, N. Y.

***Calcium Lactate***—U.S.P. edible calcium in a form particularly desirable for its assimilability. In 200-lb. fibre drums. Freight allowed in continental U. S. A.

***Sodium Lactate—50% refined***—edible, water-white product highly hygroscopic, with physical properties similar to glycerine. In 55-gallon barrels. F.o.b. Norwich, N. Y. ***50% technical***—non-edible, pale brown product, valuable wherever edibility and water-white qualities of 50% refined sodium lactate are not required. In returnable 55-gallon drums. F.o.b. Norwich, N. Y.

***"N-Z-Amine"***★—Tryptic digest of casein. Contains, in form of *amino acids*, with a portion of the respective peptides, etc., all those in the original protein—including those now believed to be essential to human nutrition. Also valuable as a bulk peptone in the production of micro-biologicals. In 100 and 300 lb. fibre drums. F.o.b. Oneonta, N. Y.

***"N-Z-Case"***★—A bacteriological laboratory peptone of high quality made from a tryptic digestion of casein. Relatively high in tryptophane content. "N-Z-Case" is noted in the Methods used by the Food and Drug Administration for the *assay of penicillin*. "N-Z-Case" conforms to the specification for "Pancreatic Digest of Casein" indicated in the National Institute of Health circular titled *"Culture Media for the Sterility Test."* Sold only in 1-lb. bottles. F.o.b. Oneonta, N. Y.

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DIVISION OF NATIONAL DAIRY PRODUCTS CORPORATION

### Hall Laboratories Staff Enlarged by Returned Vets

Lieutenant Colonel Jerry Lipke has been discharged from the Army and will rejoin Hall Laboratories, Pittsburgh, as representative in Denver and St. Louis. Other returning veterans are Richard Mills, who joins the research division of the laboratories, and Alex Henricks and Louis C. Bishop.

### Hooker Adds Barber To N.Y. Sales Staff

The Hooker Electrochemical Company, New York, has assigned Neil M. Barber to its sales staff, to cover upper New York State and Northern Pennsylvania. His headquarters will be at Niagara Falls, N. Y.


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## Brand Names Research Foundation ElectsOfficers

A. O. Buckingham, vice-president of Cluett, Peabody & Co., stock brokers, New York, was named chairman of the Brand Names Research Foundation at a meeting in the Hotel Astor, New York, recently. More than 1,250 leading business executives attended the organization's testimonial dinner.

Other officers named were Howard B. Snader, treasurer of Vanity Fair Mills, Inc., Reading Pa., Eastern vice-chairman; Donald B. Douglas, vice-president of Quaker Oats Company, Chicago, Ill., Midwestern vice-chairman, and Gavin B. McBain, assistant treasurer of Bristol-Myers Company, pharmaceutical manufacturer, New York, treasurer. Henry E. Abt was re-elected secretary and managing director.

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*(For further details see listings in OPD Green Book.)*

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**Johan Bjorksten, Ph.D.,**
185 N. Wabash Ave., Chicago 1, Ill.

**Bureau of Chemistry**
2 Broadway, New York 4, N. Y.

**Di Cyan & Brown**
12 East 41st St., New York 17, N. Y.

**The Don Company**
6253 Hollywood Blvd., Los Angeles 28, Calif.

**The Edwal Laboratories, Inc.**
732 Federal St., Chicago 5, Ill.

**Dr. J. Ehrlich**
153 S. Doheny Dr., Beverly Hills, Calif.

**Ellis-Foster Company**
4 Cherry St., Montclair, N. J.

**Ralph L. Evans Associates**
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**Food Research Laboratories, Inc.**
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**Leberco Laboratories**
36 Roosevelt Ave., Bloomfield, N. J.

**Molnar Laboratories**
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**James C. Munch**
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**Orthmann Laboratories, Inc.**
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**Herbert Waterman**
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### Philippine Commerce Chamber Elects Richards

The Philippine American Chamber of Commerce has elected C. A. Richards, export director for the Interchemical Corporation, New York, as president.


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# Botanical Drugs, Spices, Gums

The low state of botanical drug supplies in this market pinches tighter and tighter. Broad demand of substantial size draws tightly on a spot supply of botanicals that shrinks far faster than goods can be obtained in either foreign or domestic primary markets. Price bulges occur with each tightening of the tightly drawn call for prompt delivery merchandise.

Indications regarding the availability of botanicals grown in the Argentine are none too encouraging. The crops produced there were, for the most part, formerly grown in Europe and cultivation began only when the European market was shut off and former European factors turned up in Argentina and set out to supply some of the missing merchandise. Relations of State between the Argentine and the United States were strained still harder last week and if events of the week go to their logical conclusion, entire stoppage of exports to the United States is not impossible.

Signs appear to suggest that Russia may play an increasing role in the disposition of botanicals obtained in Central Europe. Numerous items originating in Czechoslovakia, Yugoslavia, Bulgaria, Hungary, and other adjacent countries—including Poland—are appearing here as imports from Russia. This may account for the difficulties encountered by importers here who have striven to reestablish contacts and business with their former suppliers in those countries.

News reports from the southern states supplying botanicals indicated last week that the folk who left the hills to earn high wages in industrial jobs in the low lands are not returning to the hills, but are still seeking industrial jobs instead of returning to the farms and gathering of drugs.

## Balsams

**Peru**—Demand was routine but the market had steady qualities that worked toward stabilization of values.

**Tolu**—Importations from Barranquilla, Colombia, totaled 100 cases. General distribution of the item was poor. Prices held firm.

## Barks

**Buckthorn**—The market was slightly higher at 47c. to 50c. per pound but the available supply was relatively small and some quarters expected further rise in values.

**Orange Peel**—An arrival of 210 bags from Haiti found the market firm in price and subject to little competition. Demand routine most of the time.

**Soap**—Primary market shippers clamped down on exports and thrust prices so sharply higher as to bring a sensational rise in spot quotations. Whole bark was priced at 29c. to 30c. per pound; crushed, and cut, 34c. to 35c.; powdered, 32c. to 33c. Even at these prices the offerings were very small. Arrivals are bound to be few, irregular, and indeterminate so long as conditions adverse to exports continue to prevail in Chile.

## Beans

**Tonka**—A moderate addition to spot stocks resulted from the arrival of 20 barrels from Brazil last week. A market of steady undertone, demand, and price prevailed throughout the period.

**Vanilla**—The outlook for stocks of this item was said to be none too encouraging. The French have assigned a relatively small quota of exports to the United States, one far under normal requirements of this country and much of that reduced quota has been sold already. Negotiations for further quantities were reported underway but success was another matter that only time could determine.

## Berries

**Juniper** — Regular berries were slightly lower at 50c. to 52c. per pound. Ordinary quality was down to 44c., while the handpicked grade was shaded to 58c. Surprisingly enough, two bags arrived from Calcutta, India. Which seems a long way to bring two bags of an article that exists in large quantities in the New England States.

## *Market Trends*

**Prices Advanced**

***Drugs***

Buckthorn bark, 2c. per lb.
Jaborandi leaves, 5c. per lb.
Papain, powdered, 25c. per lb.
Soapbark, whole, 14c. per lb.
crushed, 16c. per lb.
cut, domestic, 14c. per lb.
powdered, 11c. per lb.

***Other Articles***

Mustard seed, Californian brown, 1c. per lb.
yellow, 1c. per lb.

**Prices Reduced**

***Drugs***

Bryonia root, 2c. per lb.
Juniper berries, 2c. per lb.
Rose flowers, pale, 2c. per lb.
Saffron, Spanish, 50c. per lb.
Sage, Spanish, 1c. per lb.

***Other Articles***

Caraway seed, Canadian, 6c. per lb.
Danish, 8c. per lb.
Dutch, futures, 4c. per lb.
Morocco, dewhiskered, 3c. per lb.
Syrian, dewhiskered, 4c. per lb.
Celery seed, French, 60c. per lb.
Coriander seed, Argentine, ¾c. per lb.
Marjoram, Chilean, ½c. per lb.

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 274.9 | 270.4 | 268.6 | 144.0 |

*(For Current Prices see page 9)*

**Raspberries** — Moderate offerings alone were available and the tendency for values to undergo increase was fairly apparent. Reserves in the primary market shrink steadily. Some dealers even now have difficulty in getting replacements.

## Flowers

**Lavender**—The ordinary quality of this article was reduced to 43c. to 44c. per pound. Other qualities remained unchanged. However, the quality of all flowers available on spot was considerably below normal standards, mainly because time has taken its toll of the perfuming element in all flowers.

**Rose**—Sharp competition in this market was apparent and conditions were highly favorable for the buyer wanting a substantial quantity of pale flowers. Stocks were reported to be relatively large and even more merchandise was said to be due to reach this market in the not far distant future. Prices were down to 45c. to 50c. per pound as to quantity.

**Saffron**—The market showed a tendency to tighten because of the detention of some arrivals of Spanish flowers; the yellow styles were said to be too numerous. Prices ranged from $38 to $40 per pound but the tendency to withdraw inside quotations was quite pronounced.

## Gums

**Aloe**—A welcome arrival of 128 cases from Porto Cabello was reported last week. It was welcome because of the low state into which unsold reserves have descended and the excellence of manufacturing requirements generally.

**Arabic**—Prices were stable mainly because they have already declined to a point below which sales would be made at less than the cost to import. All indications reject the idea that the present shipment prices are not at rock-bottom—all factors in the creation of said shipment quotations being considered. Demand was routine throughout the period.

**Locust Bean**—Movement of steady if routine variety prevailed throughout the past week and the transactions put through involved prices more than reasonable steady throughout the period. Foreign market communications indicated well maintained values at the sources of origin.

## Herbs and Leaves

**Coltsfoot**—From a position in which none but to arrive goods could be bought, this article has worked into a spot delivery position with prices established at 72c. to 75c. per pound, as to quantity and seller.

**Euphorbia**—From Karachi, India, came 96 bales of this item last week, but the material came for the account of a manufacturing consumer and hence will not go into local reserves.

**Henbane**—Also from Calcutta, India, came 39 bales for the account of a

*For Late Market Developments, see Page 4*


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COCILLANA BARK
COLOCYNTH PULP
COLOMBO ROOT
CORIANDER OIL AND SEED
DANDELION ROOT
DILL SEED, Indian
ERGOT OF RYE
FENNEL SEED, Indian
FOENUGREEK SEED
GENTIAN ROOT
GINGER, Jamaica, Calicut
GRAINS OF PARADISE
GUM ARABIC AMBER SORTS
GUM KARAYA, Whole and Powder
HELLEBORE ROOT WHITE
HERBA HERNIARIÆ
HERBE MENTHE
HOREHOUND HERB
IRISH MOSS
JUNIPER BERRIES
KAMALA POWDER
LAUREL LEAVES
LAVENDER FLOWERS
LINDEN FLOWERS, with Leaves
MAHUANG, Chinese
MARJORAM LEAVES
OAK MOSS
ORANGE OIL, Sweet
ORRIS ROOT
PEPPERMINT OIL
PIMENTO, Jamaica
POPPY SEED, Indian
PSYLLIUM SEED AND HUSKS
QUINCE SEED
RHUBARB ROOT
ROSEMARY LEAVES
ROSEMARY OIL
SAGE LEAVES
SARSAPARILLA ROOT
SAVORY
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local dealer in this item which, for many weeks, has occupied a position of substantial price strength and lack of much in the way of competition.

**Jaborandi**—An importation totaling 39 bales from Vera Cruz, Mexico, was reported last week. The goods had previously been offered to arrive but on reaching this market became available for prompt delivery at 14c. to 15c. per pound.

**Marjoram**—Chilean material was fractionally lower at 12½c. to 13c. per pound. Other varieties lacked quotable change.

**Sage**—Spanish material sold lower at 15c. to 15½c. per pound, but the market stiffened following the decline. Good quality material from Cyprus was available only to arrive and was priced at 24c. to 24½c.

**Savory**—One prominent supplier of summer savory reported exhaustion of spot stocks and complete withdrawal from the market.

## Miscellaneous

**Ergot**—Prices tended upward and some reports of an actual rise appeared last week. However, the market was still considered to be $1.60 to $1.65 per pound, in rather tight position because of recent detentions by the Food and Drug Administration, and likely to go higher unless replacements shall relieve the at present short supply.

**Grains of Paradise**—Agents for shippers in the primary market made offerings of futures at 24c. to 24½c. per pound and some goods afloat were sold at that level last week.

**Kola Nuts**—Importations from Kingston, Jamaica, are appearing in the market once more; a total of 200 bags reached here last week. A few arrivals have been detained because of mould.

**Nux Vomica**—An arrival of 615 bags of buttons from Calcutta, India, was noted last week.

**Papain**—Powdered material was advanced to $4.25 to $4.50 per pound last week, thus continuing the price rise that started when scarcity of local supplies began to pinch values upward.

## Roots

**Byronia**—Although recently offered only in a to arrive position, the article became actually available on spot last week and the quotation was established at 58c. to 60c. per pound—2c. lower than the price last paid for the item.

**Dandelion**—From Buenos Aires last week arrived three bales of this root which is comparatively scarce in local circles and hence strongly maintained as to price. The root is an article that keeps badly in Summer and it is unlikely that dealers will seek major supplies sooner than the possible marketing of an European crop next Fall.

**Gentian**—Spot demand was routine but reasonably active at very steady prices. During the period, 103 bales arrived from Virgo, Spain.

**Ipecac**—Colombia is shipping a trifle of this root and an arrival of four bales from Barranquilla was noted last week. But the outlook for an early establishment of normal stocks in dealers' hands was considered by them to be very poor.

**Pareira Brava**—This article was in lessened supply and sold at an advance to 33c. to 34c. per pound last week.

## Seeds

**Caraway**—Prices declined. Canadian dropped to 53c. to 54c. per pound;

*—Continued on page 63*

## United-Rexall Consolidates Buying and Merchandising

Consolidation of the buying and merchandising operations of the United-Rexall Drug Company, Los Angeles, and its three retail chains, is being completed, with A. F. Jacobson, former president of one of the chains, heading up the new department.

Mr. Jacobson named ten department managers as assistants. They are George H. Davis, medicine department; Walter F. Sedgeley, general marketing director, medicine department; Joseph A. Hailer, pharmaceutical department; George W. Camp, hospital and rubber goods department; Doyt S. Cornelius, stationery and paper products department; Ralph J. Gelinas, household and hard goods department; Ben T. Maxey, toiletries, perfumes and cosmetics department; James D. McMillen, candy department; C. A. Rush, cigar and liquor department, and Harry E. Custer, sporting goods and specialties department.


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Oil of Juniper Berries ..... 2 ozs.
Brandy ..... 2 ozs.

Dissolve and Add

Fluid Extract of Buchu ..... 1 oz.
Potash Acetate ..... 1 oz.
Glycerin ..... 2 ozs.

Simple Elixir to make 1 pint.

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Was formulated in 1873 at the earnest request of a prominent physician (of his old home) for a GOOD Kidney Remedy. It proved a success from the start and has steadily grown in favor as a valuable remedy for all Kidney Diseases of male and female.

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*(To be continued)*

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## *Honored by ACS*

**Dr. John C. Warner, head of the department of chemistry and dean of graduate studies in the college of engineering and science of the Carnegie Institute of Technology, will receive the award given annually by the Pittsburgh section of the American Chemical Society for outstanding service to chemistry.**

**The award recognizes his work on the atomic bomb as assistant to Dr. Charles A. Thomas, vice-president of the Monsanto Chemical Company, St. Louis, who had charge of research on the purification and metallurgy of plutonium, one of the bomb's bases. The presentation will be made at a dinner in the University Club, Pittsburgh, February 21.**

## Brazil Botanical Discovery Considered New Wax Source

Preliminary laboratory observations reveal wax producing possibilities in the cauassu plant which is found in the Amazon river jungles of Brazil, Nelson Knaggs, of the Hilton-Davis Chemical Company Division, Sterling Drug, Inc., Cincinnati, Ohio, told the Carbon and Ink Ribbon Association meeting February 14, at the Union League Club, New York. The carbon paper industry alone uses an estimated 15 to 20 million pounds a year, he said.

Mr. Knaggs presented a detailed report with motion pictures on his recent scientific expedition 500 miles up the Amazon in search of botanicals as new wax sources to supplement the carnauba.

The cauassu tree takes only one year to produce wax, as compared to ten years for the carnauba, Mr. Knaggs said. It may possibly be cultivated on plantations, which would be much simpler than the jungle harvesting practices of the rubber industry, he added.

## Winthrop Adds Dennis To Research Staff

Dr. Emery W. Dennis has been appointed associate director of the biological division, and head of the chemotherapy laboratory of the research laboratories of the Winthrop Chemical Company, New York. Dr. Dennis will make his office at Winthrop's laboratories in Rensselaer, N. Y.

## Botanical Drugs

—*Continued from page 62*

Danish, 53c. to 54c.; Dutch, futures, 58c. to 59c.; Morocco, natural, 44c. to 45c., and dewhiskered at 58c. to 60c.; Syrian, dewhiskered, 58c. to 60c.

**Celery**—The nominal price of $1 per pound for French seed succeeded the also normal but previous quotation of $1.60. None is available here.

**Coriander**—Some excellent quality Peruvian seed was available at 9½c. to 10c. per pound. Argentine seed was down to 9c. to 9½c.

**Cumin**—Persian seed was fractionally lower at 36c. to 36½c. per pound.

**Mustard**—California seed advanced to 14c. to 14½c. per pound for brown, and yellow seed was nominal at 21c.

## Spices

**Cassia**—It is expected that the establishment of a committee to handle Netherlands East Indies product with a view to equitable distribution will ultimately result in some goods becoming actually spot. Only Chinese cassia is now available.

**Clove**—Madagascar futures were a small fraction higher at 17¼c. to 17¾c. per pound.

**Pepper**—The scarcity of red pepper on spot made for much interest in the arrival of 397 bags from Port au Prince last week.

**Pimento**—The availability of Jamaica spice was improved last week by the arrival of 460 bags from Kingston. Spot quotations were very firm at 23c. to 23½c. per pound.


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# Essential Oils, Other Aromatics

While the holiday and strike influences were factors in slowing down business in the market for essential oils and aromatic chemicals, most sellers reported a satisfactory demand. Business was holding at surprisingly good levels in view of unfavorable raw material situations in certain consuming industries. Prewar production of soap has been retarded because of the unfavorable fats and oils quota. The confectionery, ice cream, beverage and food industry have been hard pressed by the tight sugar allotment, which was still substantially below 1941 levels.

The United States Customs Court handed down the long awaited decision on the duty status of Ceylon citronella oil. It was the opinion of the court that the material impounded last year because it contained kerosene should be admitted free of the compound duty since oil similarly adulterated had been recognized and accepted by the trade for many years previous. It further pointed out that the Government Tariff Information Surveys published by the Tariff Commission in 1921, indicated that pure oil was seldom sold. Further information will be found on page 3 of this edition.

The most noteworthy price change was the continued upward tendency in the quotations for lemongrass oil. However, prices at the primary source appeared stabilized during the past few weeks. The new crop, while believed to be larger, will not necessarily take care of the world demand, it was pointed out. The recent shipments to this country have been rapidly absorbed to take care of the pent-up demand.

## Essential Oils

**Almond**—Supplies of bitter and sweet almond oils were adequate to cover routine needs of consumers. Prices held firm at the previously established levels.

**Angelica**—Offerings were limited for the domestic and imported oil; price for domestic was $120 per pound, and ranged to $135 for imported material. Interest was narrow at current price levels.

**Anise**—Small lots reached here from China, and offerings were on a restricted basis. Quotations ranged from $3.65 to $5.50 per pound, according to sellers' previous ceiling. Moderate offerings of Russian, U.S.P., were obtainable at $4 per pound.

**Bergamot**—The market for the Italian natural continued in a satisfactory position. Arrivals were expected to come from Italy through the government agency and allocated to previous importers. Replacement costs were expected to maintain prices at prevailing levels. Direct purchases through Sicily were possible, but the cost to the buyer would be higher.

**Bois de Rose**—Arrivals last week amounted to six drums from Brazil. The market did not appear to be heavily burdened with material, despite recent arrivals from South America. A good deal of the oil was taken by consumers upon arrival here. Prices were maintained at $5.25 to $7 per pound.

**Cajeput**—Spot supplies were depleted because of the situation in the Far Eastern primary sources. The outlook appeared somewhat brighter for replacements during the next few months.

**Cananga**—Business was limited for the native in view of the small stocks available. The reestablishment of trade with the Dutch East Indies was looked for to relieve the situation.

**Cassia**—Shipments of Chinese made their initial appearance, although quantities reaching here so far have been confined to small lots. Prices depended upon sellers ceiling and ranged from $10.75 to $14 per pound.

**Cedarwood**—Business continued on a restricted basis because of the small stocks on hand. The reduced domestic production was pointed out as the dominating factor. Prices ruled firm.

**Celery**—Usual consumers entered the market for necessary commitments and the tone remained steady.

### *Market Trends*

**Prices Advanced**

Geranium, Bourbon, 50c. per lb.
Lemongrass, oil, 20c. per lb.

**Prices Reduced**

Benzyl cinnamate, 25c. per lb.
Heliotropin, 20c. per lb.

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 216.1 | 215.9 | 222.0 | 206.7 |

*(For Current Prices see page 9)*

Prices ranged from $16.50 to $18 per pound.

**Citronella**—An important decision was handed down by the U. S. Customs Court on the duty status of Ceylon citronella. It was the opinion of the court that the material impounded by the government because it contained kerosene should be admitted free of the compound duty. It was further contended that the adulteration has been recognized and accepted by the trade for years. The decision was expected to clarify the situation overhanging the market for several weeks, and permit sellers to transact business on a normal basis.

**Clove**—The market retained its satisfactory position, with supplies adequate to cover all consumers' needs. Prices held firm at previously established levels.

**Eucalyptus**—Spot stocks remained scarce, and the small lots were restricted to regular consuming channels. Prices underwent no change and the tone was very firm.

**Geranium**—Price was slightly higher at $17.50 per pound and ranging to $22 for the Bourbon. Stocks on hand were limited. No shipments of Russian or Algerian have been reported.

**Ginger**—Demand for and supplies of distilled oil were moderate and market was in a steady to firm position. Prices ranged from $12 to $13.50 per pound.

**Guaiacwood**—The market failed to change insofar as prices were concerned. The spot position continued satisfactory, with all consumers' needs being supplied.

**Lavender**—Offerings of the various French esters were not large. Future shipments were expected to remain limited, although the currency devaluation was a helpful factor in facilitating business. Conditions in spike lavender remain unchanged with the spot position tight. Prices ruled firm.

**Lemon**—Domestic production was expected to expand in view of the larger lemon crop. However, labor difficulties have been a detrimental factor. Government buying has leveled off, while the surplus stocks amounting to 300,000 pounds have been released on an allocated basis. The Department of Agriculture reported government acquisitions at the end of 1945 totaled 882,000 pounds.

**Lemongrass**—Spot prices advanced to the basis of $2.95 to $3.85 per pound. Replacement costs at the source have been recently steady at $2.77 per pound. Indications were that the new crop would be larger, but not sufficient to take care of world needs. The British Ministry of Food has been an active purchaser.

**Orange**—Domestic production was expected to increase moderately to augment present limited supplies, while imports from Brazil were a factor in bolstering the market. The Brazilian oil has been subject to higher replacement costs in view of the foreign exchange and tax difficulties encountered with that country.

**Peppermint**—Consumers' needs were adequately met from domestic stocks. Demand was moderate, and prices held at the same levels.

**Petitgrain**—Spot stocks were not large, and offerings were made on a restricted basis. Market continued to reflect the higher replacement costs at the source. Quotations ranged from $2.55 to $3 per pound.

**Rose**—Only small lots were available. The situation in Bulgarian was confused, and production of oil in that country was under Russian domination.

**Sage**—Spot position of the market continued tight, and higher replacement costs maintained the price at $1.60 per pound.

**Spearmint**—Supplies were sufficient

*For Late Market Developments, See Page 4*


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to meet current domestic needs. Sellers continued to transact business on the ceiling basis, which was on a par with replacement costs.

**Thyme** — Current position of the market remained tight, and new arrivals on the way were awaited to improve the spot position. Prices remained unchanged and firm.

**Vetiver** — Bourbon remained in limited supply, while offerings of Haitian and South American were still available. Prices failed to change.

**Ylang-Ylang**—The market position was reported as slightly improved because of recent arrivals. Quotations ranged at previous levels.

## Aromatic Chemicals

**Benzyl Cinnamate**—Price was lowered to the basis of $3.75 per pound. The material has become available in moderate quantities at the lower schedule.

**Cinnamic Aldehyde** — Sellers were sold ahead against current production, with new business subject to shipping delay. Prices firm.

**Coumarin**—Tightness characterized the market, although contract deliveries were improving. Prices held unchanged.

**Ethyl Vanillin**—Production lagged behind demand, and orders were subject to delay. Prices firm.

**Heliotropin**—Quotations declined to $2.75 per pound, reflecting the more favorable supply situation prevailing in the market.

**Methylnaphthyl Ketone** — Material was more available and has been restored to some sellers' lists after a long absence.

**Musk**—Leading factors continued to make offerings of ambrette and ketone to regular contract consumers on an allocated basis. Prices remain firm.

**Phenylethyl Alcohol**—Shipments displayed gradual improvement, but production lagged behind inquiries. Prices unchanged.

### Foster D. Snell, Inc., Names Schmeidler Business Manager

Robert Schmeidler, lately colonel with the Army Air Forces, has joined the staff of Foster D. Snell, Inc., consulting chemists and engineers, 305 Washington street, Brooklyn, N. Y., as business manager. Mr. Schmeidler, a graduate of the College of the City of New York and holder of the A.M. degree from Columbia University, was associated for over ten years with United Piece Dye Works, Passaic, N. J., before he entered the army in 1941.

### American Can to Expand

The American Can Company, New York, will build a new can manufacturing plant at Fort Smith, Ark., as soon as materials can be obtained. The first unit of the new factory will call for an investment of approximately $1,000,000.

## *Trade Briefs*

**Dorothy Perkins** Company, cosmetic manufacturer, St. Louis, is constructing a $250,000 plant and office in that city.

**Aromatic Products,** New York, has named Ralph H. Auch its sales representative in Cincinnati. He was formerly associated with the War Production Board.

**Revlon Products** Corporation, New York, has named Herbert Hyams retail sales manager, to supervise the department store, drug and consultant divisions and sales promotion department.

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# Petroleum Derivatives

Locally, the most important development of the past week in the movement of petroleum derivatives into consumption has been the ending of a ten-day strike of tugboat workers, after this stoppage of transportation operations in New York harbor had paralyzed shipping and brought about an acute fuel shortage which had led to the shutting down of the normal business life of this city for eighteen hours on February 12.

Conveyance of pressingly needed fuel oil into the metropolitan area has now been resumed by the return to work of the tugboat operatives, while the differences which led to the tieup have been submitted to a three-man committee. But, although a famine in home-heating fuel oil in this area appears to have been temporarily averted, the immediately available supply of heavy fuel oil here continues inadequate and it will require several weeks of intensified harbor shipping to pile up the required stocks of both light and heavy fuels oils hereabouts, to meet local requirements for the remainder of the heating season.

Meanwhile, proposals are being made for making provision to avoid recurrence of such a holdup in deliveries of fuel oil in this area. Toward this end, the feasibility of employing flexible pipelines, running through the tunnels from the New Jersey to the New York sides of the Hudson River, has been suggested. And to facilitate movement of natural gas and fuel oil from the Southwest to the East coast, three groups of petroleum interests have shown a strong desire to acquire the war-born, government-owned Big Inch and Little Big Inch pipelines which the Reconstruction Finance Corporation is planning to dispose of.

## Solvents and Diluents

**Aromatic Solvents** — Processors of these high-solvency aromatic naphthas report the continuance of a fairly active demand which they are able to satisfy with adequate stocks of the finished products, inasmuch as they are in receipt of sufficient supplies of petroleum xylol and petroleum toluol, although the drain upon petroleum xylol has been hugely amplified by the shortage in coaltar xylol resulting from the unrelieved work stoppage at the gas recovery coking ovens of the independent iron and steel manufacturers.

**Cleaners' Naphtha**—Still moving steadily into consuming chanels, to a much larger extent on civilian account than on military procurements.

**Lacquer Diluent**—Continues to be purchased in considerable volume by the paint and varnish trade.

**Mineral Spirit**—Buying interest is still keen in this material.

**Rubber Solvent**—Virtually all available supplies and the current output of this solvent continue to be absorbed by the manufacturers of synthetic rubber.

**Stoddard Solvent**—Civilian drycleaning interests are still taking up the bulk of all offerings of this solvent, with only a small quantity being bought for military account.

**V. M. & P. Naphtha**—In fairly steady but not extensive inquiry.

### Markets at Other Centers

*Chicago, Feb.* 15.—Consuming industries' takings of petroleum solvents continue relatively large in many instances. Inquiry for additional quantities is good. Material is not being pressed on the market indiscriminately.

*Los Angeles, Feb.* 15.—Petroleum solvents and diluents are still moving briskly in the Pacific coast markets. Offerings continue good.

## Lighter Fractions

**Butane**—Still in spirited demand and available in sufficient quantities to meet the current requirements of the home-heating and cooking interests in the South and Southwest and of private manufacturing plants employing it to generate intense heat in the working of certain processes as well as the undiminished needs of the synthetic rubber makers and the steadily declining wants of the producers of high-octane aviation gasoline.

**Heptane**—Considerable buying interterest continues to be manifested in this gas.

**Hexane**—Still moving in moderate-sized lots into consuming channels.

**Octanes**—In fair inquiry and adequate supply.

**Pentanes**—Although military takings have dwindled to a level close to the vanishing point, purchases on civilian account are still runing to a moderate volume.

**Propane**—The market for this liquefied petroleum gas continues to be governed by conditions almost exactly similar to those noted above as characterizing the situation in butane.

### Markets at Other Centers

*Chicago, Feb.* 15.—Call for most grades of materials in the list of liquefied petroleum gases is extensive. Offerings are light. In the main, the market is giving a good account of itself. Inquiry is brisk.

*Los Angeles, Feb.* 15.—A good market tone continues to prevail on the Pacific coast for most of the liquefied petroleum gases. Supplies have continued liberal.

## Petrolatums and Waxes

**Microcrystalline Waxes** — Continue in keen demand, with producers and other suppliers still having difficulty in finding supplies of sufficient size to fill all orders.

**Paraffin**—With the takings of both domestic and foreign consumers still running to large proportions, producers are finding it impossible to accumulate a stockpile of either crude scale or the refined grades.

**Petrolatums** — Buying interest in petroleum jelly continues spirited and extensive, covering equally the U.S.P., veterinarian and technical grades, all of which are being firmly maintained on the basis of the advanced prices named last Fall.

**White Mineral Oils**—Still moving in lively fashion and considerable volume into consuming channels with prices strongly held.

## Fuels and Lubricants

**Fuel Oil**—Although the halting of shipping in New York harbor, resulting from the tugboat workers' strike, just ended, has brought stocks of heavy oil down to ebbtide levels in this city, there has been an increase in the nationwide supplies of this oil, figured for the week ended February 9 as amounting to 469,000 barrels and as carrying these nationwide stocks up to 39,550,000 barrels on that date. But nationwide stocks of light fuel oil for the same week have registered a further decline of 5,000 barrels to 28,934,000 barrels, contrasted with 29,471,000 barrels a year ago.

**Gasoline**—A further increase of 194,000 barrels to 103,319,000 barrels has been recorded in nationwide stocks of gasoline for the week ended February 9. At this level, these stocks are at their zenith for the season and compare well with a revised figure of 103,215,000 barrels at the end of the preceding week and 93,355,000 barrels a year ago.

Refiners who had not hitherto adjusted their quotations downward by three-tenths of a cent in the New York and New England areas hastened to do so, this past week. Refiners in the group 3 district lowered their prices for natural gasoline by a half cent to a basis of 3½c. per gallon while the price of this commodity in the Breckenridge area, which had recently been reduced commensurately, has remained unchanged at 3c.

**Kerosene**—A belated markup of their prices for kerosene by a half-cent per gallon has been announced by refiners in Western Pennsylvania.

*For Late Market Developments, See Page 4*

### *Market Trends*

**Prices Advanced**

Kerosene, Western Pennsylvania, ½c. per gal.

**Prices Reduced**

Natural gasoline, Group 3, ½c. per gal.

*(For Current Prices see page 9)*


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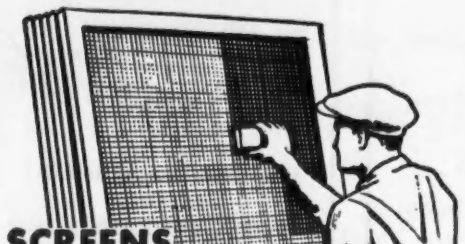


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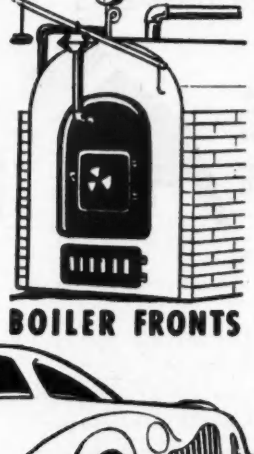


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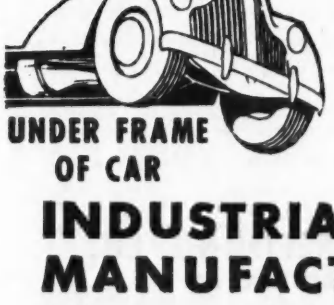


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This U.S.I. proprietary solvent is virtually a one man band, serving as a solvent for shellac, lacquers and spirit varnishes. Because of its reasonable price and mild odor, it is also finding wide application as a cleaner and as a solvent in paint removers, cleaning compounds and cements.

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**U.S.I INDUSTRIAL CHEMICALS, INC.**

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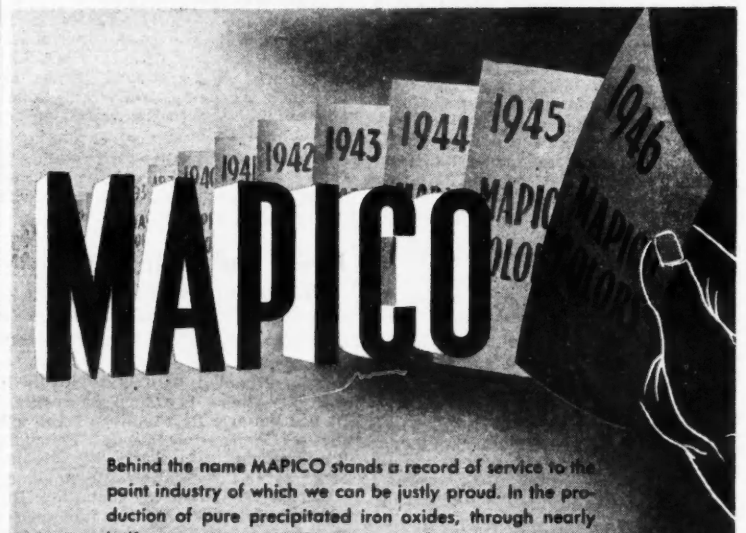


Behind the name MAPICO stands a record of service to the paint industry of which we can be justly proud. In the production of pure precipitated iron oxides, through nearly half a century, MAPICO standards of quality have been continuously kept at the highest possible level. To maintain this record of integrity always will be our foremost concern.

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Offering a cleaner tint much more on the yellow side. Its low oil absorption affords:

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- Higher pigment concentration
- Better Gloss & Durability

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# Protective Coatings Materials

Disgruntlement among the manufacturers of protective coatings and handlers of their ingredients over the prolongation of labor-management disputes in the steel, motor vehicle and electrical equipment trades, which, together with unrelieved shortages of the most vital paint and varnish materials, are still hampering attainment of the 1946 goal of unprecedented peacetime business, has given way, this past week, to unrestrained gratification over the magnificent sales volume showing made in 1945, during the greater part of which the industry was deluged with war orders, and had only a modicum of civilian business.

Study and analysis of the official report of the Census Bureau on the sales of paints, varnishes, lacquers and fillers, made by the 680 reporting establishments for 1945 has revealed a total of $643,425,141 which, as foretold by the *OPD* for several weeks past, has been far in excess of that for the previous banner year, 1944, running more than $25,000,000 higher than that year's record and chalking up a new hightide mark for the industry, as exhibited in the accompanying table at the foot of these two columns. Trade sales alone, reported as reaching a total of $307,394,294 for 580 establishments, are also disclosed as exceeding the 1944 record by well over $13,000,000.

There has been little further evidence of improvement in the supply situations of paint and varnish materials within the past week, save in rosin, where the recent removal of domestic consumption quotas by the Civilian Production Administration has eased availability in that direction. But the protective coatings industry has read some hope for more liberal quotas in linseed oil into news of an agreement recently reached whereby Uruguay is to sell to the United States the balance of its 1944-1945 linseed crop and the exportable surplus of its 1945-1946 yield.

## Metallic Lead and Zinc

Chances for the lead pigment makers to obtain a more liberal allotment of pig lead through a substantial increase in the domestic production of metallic lead under the stimulus of a proposed increase in ceiling prices on lead which, according to its proponents, would encourage mining interests to expand their output while proving less costly to the United States Treasury than the present premium price plan, have been materially lessened within the past week by the action of the Stabilization Administration in rejecting requests of the mining States to that effect.

In a formal announcement made by the Stabilization Administrator, denying the requests for higher price ceilings, it has been stated that the government will maintain present ceiling prices on lead, and that this position has been concurred in by the Office of War Mobilization and Reconversion, the Office of Price Administration and the Civilian Production Administration, all of which are strongly of the opinion that the present lead price structure, together with the existing premium price plan applying to copper, lead and zinc, provides adequate facilities for obtaining maximum production of lead.

Meanwhile, however, legislative proposals for providing an increase in the ceiling prices, while also continuing the premium price plan on these metals for another year, beginning June 30, have been introduced into Congress.

Prices of pig lead have continued unchanged for the week February 8-15 at 6.35c. per pound in St. Louis and 6.50c. in New York.

Despite a slight dip in the domestic production of metallic zinc for last December, reported by the Bureau of Mines, there is now being registered a moderate steady gain in the yield of this metal at the mines, without, however, any commensurate stepping up of the yield of zinc slabs at the refineries. The record of December domestic production, in terms of recoverable metal, shows the output to have been 48,602 tons, or 19 percent below the monthly average during 1944 and 6 percent under the November output. Quotations for zinc slabs have remained unaltered for the week February 8-15 at 8.25c. per pound in East St. Louis and 8.66c. in New York.

### *Market Trends*

**Prices Advanced**

None

**Prices Reduced**

Dibutyl phthalate, 0.2c. per lb.

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 140.2 | 140.2 | 140.2 | 140.2 |

*(For Current Prices see page 9)*

## Pigments

**Titanium Dioxide**—Although one of the two largest producers of $TiO_2$ is still granting 100 percent quotas to unrated consumers, it acknowledges that there can be no assurance of a continuance of this liberal policy beyond the current month, inasmuch as there is no way of knowing at this time how large a quantity it may be necessary to reserve for meeting the requirements of the U. S. Navy in its new paint-up program.

**White Lead**—With the chances of a more liberal allowance of pig lead considerably lessened by the refusal of the Economic Stabilization Administrator to grant the request of the Western mining States for higher price ceilings for lead, while also continuing the present premium payment plan, manufacturers of this pigment are becoming dispirited over the outlook, as they now find themselves confronted with the prospect of being unable to fill more than half to two-thirds of the orders currently being proffered without much hope for improvement in the supply of pig lead which can be made available for them until domestic production is hugely amplified—which they feel that they have no right to expect, in the absence of the incentive that would be furnished by a higher price range for the metal.

## Fillers and Extenders

**China Clay**—Both foreign and domestic materials are still moving in

## *Paint, Varnish, Lacquer Sales: 1945*

The value of paint, varnish, lacquer and fillers sold in each of the twelve months of 1945, as reported by 680 establishments to the Bureau of Census, is shown to have reached the record-breaking high level of $643,425,141—more than $25,000,000 in excess of those for 1944 the heretofore banner year in this industry. Details of the sales reported by these establishments, and comparisons with the total sales in the same lines for 1944 and 1943, follow:—

| | | —Classified sales reported by 580 establishments— | | | | Unclassified |
|---|---|---|---|---|---|---|
| | | | Industrial sales | | | |
| 1945 | Total sales reported by 680 establishments. | Trade-sales of paint, varnish, and lacquer. | Total. | Paint and varnish. | Lacquer. | sales reported by 100 establishments. |
| January | $53,600,343 | $25,204,258 | $23,058,028 | $17,701,016 | $5,357,012 | $5,338,057 |
| February | 51,487,714 | 24,074,516 | 22,430,042 | 16,765,455 | 5,664,587 | 4,983,176 |
| March | 59,708,428 | 27,756,431 | 26,118,390 | 19,486,322 | 6,632,077 | 5,833,558 |
| April | 58,391,532 | 26,438,966 | 25,958,181 | 19,679,706 | 6,278,475 | 5,999,385 |
| May | 59,848,476 | 27,257,881 | 26,217,532 | 20,025,802 | 6,231,730 | 6,333,063 |
| June | 58,367,736 | 26,011,526 | 26,254,682 | 20,548,148 | 5,706,534 | 6,101,528 |
| July | 52,623,448 | 22,689,192 | 24,485,398 | 18,578,202 | 5,448,858 | 5,448,858 |
| August | 51,101,093 | 23,427,452 | 22,167,652 | 16,840,684 | 5,326,968 | 5,505,929 |
| September | 48,020,267 | 26,011,054 | 16,851,178 | 12,540,036 | 4,311,142 | 5,158,035 |
| October | 57,540,613 | 31,017,695 | 20,820,454 | 15,977,436 | 4,843,020 | 5,702,264 |
| November | 50,297,661 | 26,042,952 | 18,996,011 | 14,475,336 | 4,520,675 | 5,258,698 |
| December | 42,378,090 | 21,462,371 | 16,605,089 | 12,128,925 | 4,476,164 | 4,310,630 |
| Total, 1945 | $643,425,141 | $307,394,294 | $269,997,646 | $204,747,066 | $65,250,580 | $66,033,201 |
| Total, 1944 | 618,325,532 | 294,154,629 | 263,023,601 | 197,081,086 | 65,942,515 | 61,147,302 |
| Total, 1943 | 565,620,999 | 265,201,659 | 248,899,746 | 186,186,562 | 62,713,184 | 54,519,594 |

*For Late Market Developments, See Page 4*


STEARATES

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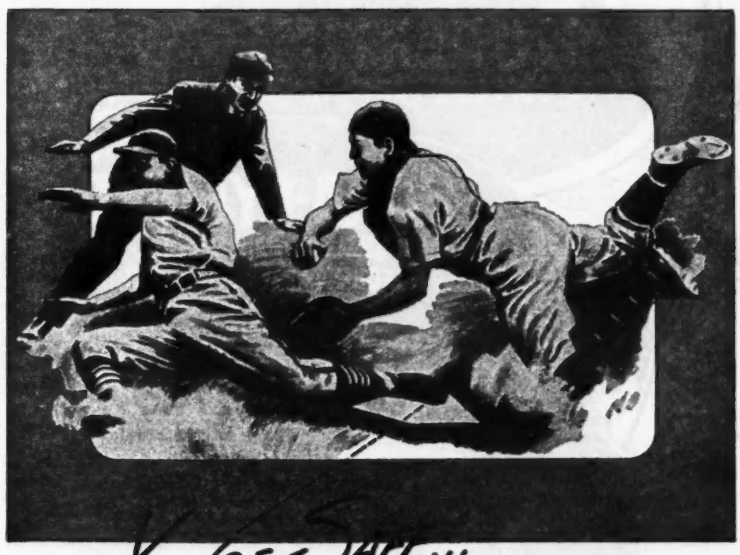


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moderate volume into consuming channels. An importation of 295 bags of fire clay has recently been recorded.

**Mica**—Paint makers continue buying extensively of both wetground and dryground scrap mica at the recently advanced prices.

## Dry and Chemical Colors

**Bone Black**—A moderately active demand is still noted for these blacks, with prices well maintained.

**Carbon Black**—Although the takings of paint makers in channel blacks are reaching only fair proportions in most of these lines, the demand for high-color blacks continues keen and there is little, if any, indication of a diminution in the absorption of the so-called rubber grades by the manufacturers of synthetic rubber tires.

**Chrome Colors**—Despite steadily increasing production in most of the chrome colors, commensurate with the improvement in the output of the bichromates, the paint trade requirements continue to outstrip the current supply. An especially keen demand is noted for zinc chromate yellow as a primer in repainting ships' hulls, at the opening of a new marine paint season, but stocks are still limited, although the takings for the navy have tapered off considerably.

## Bronze Powders

Despite the action of the Office of Price Administration, suspending price control as of February 13 on bronze powder and alumina, among a long list of non-ferrous metals and other commodities, there has been no reflection of this removal of ceilings in the prices asked by manufacturers of these materials within the past week. Somewhat higher prices, however, are reported to be in prospect for bronze powders.

## Driers and Flatteners

**Naphthenates** — Continue to be bought in sizable quantities, with the manufacturers of these driers fairly liberally supplied with naphthenic acid.

**Stearates** — Extensive purchasing of all types of these flattening agents is still being recorded. Although some of the smaller plants are already booked to the limits of their capacities, the larger factories are still able to accept new business.

## Lacquer Materials

**Dibutyl Phthalate** — Belated announcement has been made this past week by one of the leading manufacturers of this material that his additionally reduced cost of butanol has enabled him to lower his prices by two-tenths of a cent per pound for the new monthly period, February 10-March 9, making his revised quotations for this period, 16c. per pound in tankcars, 17c. in drums for carload lots and 17½s. in drums for less than carlots. The two next lowest priced producers continue to quote 16.2c. and 17c. in tankcars, respectively, and, as previously mentioned, one manufacturer has marked up his price to a basis of 20.9c. in tankcars.

## Naval Stores

**Rosin**—Reflecting the action of the Civilian Production Administration in freeing the rosin market in the South from the incubus, in the form of order M-387, which had recently been cramping the buying movement with its restrictions on consumption and limitations on inventories, while unsold stocks were accumulating to an unwonted extent, there has been a considerable reduction in these stocks, sufficiently notable to suggest that these holdings will be brought down to the desired level by the time the new crop of gum naval stores begins to be brought in, six to eight weeks from now.

Some uneasiness on the score of the size of this new crop has arisen of late, because of a threatened shortage of naval stores producing supplies, such as cups, gutters, aprons and nails. Although the manufacturers of these supplies are adequately equipped mechanically for turning out enough of them to meet the greatly increased demand in the producing territory, which has arisen in view of plans for swelling the 1946-1947 yield of gum naval stores from the 1945-1946 estimated total of 245,000 units to one of 300,000 units, these manufacturers are now finding themselves badly handicapped by the increasing scarcity of their raw material, steel, due to the prolonged strike of workers in the iron and steel industry.

Meanwhile, domestic purchasing operations in rosin by the paint-making trade and soap industry are temporarily being held down somewhat by shortages in oil and glycerin supplies, but it is understood that, although private exports of rosin are still in abeyance for lack of permits, UNRRA is scheduled to enter the market shortly for approximately 16,000 drums of rosin, mostly of the upper grades. And

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Ultramarine Blue
Alkali Blue Toner
Dyestuffs
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it is deemed probable that, in filling this order, 6,000 drums now held in the CCC stockpile will be used, so that there will remain to be purchased from the industry only 10,000 drums.

*Savannah, Feb. 15.*—Following is a record of the market for the week:—

| | Price per unit—Low of range quoted | | | | |
|---|---|---|---|---|---|
| | Mon. | *Tues. | Wed. | Thurs. | Fri. |
| B | $6.00 | ... | $6.00 | $6.00 | $6.00 |
| D | 6.07 | ... | 6.07 | 6.07 | 6.07 |
| E | 6.60 | ... | 6.60 | 6.60 | 6.60 |
| F | 6.70 | ... | 6.70 | 6.70 | 6.70 |
| G | 6.74 | ... | 6.74 | 6.74 | 6.74 |
| H | 6.76 | ... | 6.76 | 6.76 | 6.76 |
| I | 6.76 | ... | 6.76 | 6.76 | 6.76 |
| K | 6.80 | ... | 6.80 | 6.80 | 6.80 |
| M | 6.82 | ... | 6.82 | 6.82 | 6.82 |
| N | 6.98 | ... | 6.98 | 6.98 | 6.98 |
| WG | 7.23 | ... | 7.23 | 7.23 | 7.23 |
| WW | 7.50 | ... | 7.50 | 7.50 | 7.50 |
| X | 7.50 | ... | 7.50 | 7.50 | 7.50 |
| | Drums | | | | |
| Sales | ... | ... | ... | ... | 21 |
| Receipts | 4,450 | ... | 60 | 8 | ... |
| Shipments | 4,450 | ... | 100 | 71 | ... |
| Stocks | 6,927 | ... | 6,924 | 6,861 | 6,861 |

* Savannah Naval Stores Exchange closed February 12 in observance of Lincoln's Birthday.

**Turpentine**—Tension in the supply situation in gum spirits turpentine is growing more acute daily, as government-held stocks have become exhausted and the flow of new material from the Southern pine woods is pinched down to a minimum by the cold weather conditions in these producing regions. There continues, however, a fairly steady domestic movement of this commodity into consuming channels in small containers. Tankcar demands are sizable but increasingly difficult to fill. There is also an active foreign demand, but export regulations are still holding down out-of-the-country movements, and presumably will continue to do so until there is a sufficiently sizable quantity available from the new crop to assure enough to meet domestic requirements with a surplus to boot.

*Savannah, Feb. 15.*—Following is a record of the market for the week:—

| | Bulk gallons—Cents. | Sales. | Barrels—Receipts. | Shipments. | On hand. |
|---|---|---|---|---|---|
| Monday | 83½ | ... | 7 | 136 | 2,955 |
| *Tuesday | ... | ... | ... | ... | ... |
| Wednesday | 83½ | ... | 21 | 10 | 2,966 |
| Thursday | 83½ | ... | ... | 14 | 2,952 |
| Friday | 83½ | ... | ... | 7 | 2,945 |

* Savannah Naval Stores Exchange closed February 12 in observance of Lincoln's Birthday.

## Synthetic Resins

**Ester Gum**—Moving in only comparatively small amounts, not because of any lack of demand—which, on the contrary, continues extremely keen—but because of the shortage of both gum and wood rosins, only slightly relieved by the rescinding of order M-387, and the high cost of glycerin, which are combining to hold production down to rather meager proportions.

## Varnish Gums

**Copal**—Unable to make any further sales of Congo copal gum until new ceiling prices are established for this gum landed in the United States from the Belgian Congo, the importers of this commodity are finding themselves in a difficult position with their warehouses nearly bare of stocks and with no possibility of even a slight replenishment until the close of this month, when a small cargo is expected to reach here on a steamship not hitherto employed in making such shipments.

**Shellac**—A withholding of new offers of shellac from India has continued to distress importers of this material within the past week. No offerings of any kind of lac have been made from the country of origin for the last two and a half months and the importers feel powerless to force the hands of the operators there, inasmuch as they are unable to bid more for the lac than the American price ceilings will permit. There is a general belief, however, that the pressure of the Bysakhi crop, this Spring, on the substantial stocks held in India will eventually elicit offerings at current prices.

## Glues and Binders

**Casein**—A clamorous demand and scanty supplies continue to characterize the market for both imported and domestic production casein. OPA's recent rejection of applications for higher price ceilings on both American and foreign casein have now made it permanently impossible for American importers to bid successfully for casein in the Argentine market in competition with operators from other countries not thus restricted in the amounts that they can offer. And now the strained political relations between the United States and other countries on the Western Hemisphere, on the one hand, and Argentina, on the other, are adding to the impasse in that direction. The only recent arrival of Argentine casein in the United States has been a single consignment of 2,030 bags, weighing approximately 222,700 pounds, reaching New Orleans, this past week.

**Glues**—Manufacturers of both bone and hide glues continue compelled to make rather scanty allocations of their finished materials among their customers, because of the scarcity of imported raw materials and the recent curtailment of supplies of animal glue-stock obtainable from the American meat packers. Latest arrivals of raw materials have included 4,329 bags of bones.

## Paint Merchants Clinic Planned for Mar. 18 in N.Y.

A paint merchants clinic, conducted by the New York Paint, Varnish and Lacquer Association, in cooperation with the Paint Dealers Institute and the Paint Travelers Association, will be held March 18, in the Hotel Pennsylvania, New York.

## Lightcap Paint Div. Head For Montgomery Ward

Milton W. Lightcap has assumed the general managership of the paint division of Montgomery Ward Company, with headquarters in Chicago. Mr. Lightcap had formerly been associated with Pittsburgh Plate Glass Company, Pittsburgh, as well as the Devoe & Raynolds Company and subsidiaries in executive positions. More recently he has been associated with North American Philips Company, Inc., electronic manufacturer, in the capacity of distribution manager.

**M. W. Lightcap**

## Gartside & Co. Formed

Gartside & Co. has been formed in Chicago as commission merchants in crude and refined vegetable oils, tallows, greases and feed ingredients.

## Lacquer Sales for 1945

Sales of clear lacquers, pigmented lacquer bases and dopes, and thinners by 158 manufacturers, as reported to the Bureau of Census for the entire twelve months of 1945, and a comparison with those for the entire year 1944, were as follows:—

| | 1945 | 1944 |
|---|---|---|
| Clear lacquers— | | |
| Gallons | 15,936,010 | 13,864,302 |
| Value | $25,083,741 | $21,656,996 |
| Pigmented lacquers— | | |
| Gallons | 13,979,974 | 14,211,372 |
| Value | $31,254,754 | $31,532,571 |
| Lacquer bases and dopes— | | |
| Gallons | 3,579,013 | 3,470,178 |
| Value | $4,824,710 | $4,439,128 |
| Lacquer thinners— | | |
| Gallons | 23,692,492 | 21,809,909 |
| Value | $22,444,347 | $20,354,529 |
| Totals— | | |
| Gallons | 57,187,489 | 53,355,752 |
| Value | $83,607,552 | $77,983,324 |

## Paraffine Companies Merger Hearing Set for March 11

The California Corporation Commission will conduct a hearing March 11 on the proposed merger of the Paraffine Companies and the Schumacher Wall Board Corporation, both San Francisco.

The rubber hoops are a special patented development of the United States Steel Products Company.

THE corrosion resistance of U·S·S Stainless Steel Drums and the little effort required to keep them clean and sanitary make them a money-saving choice when these are important factors. Stainless Steel is ideal for handling food products, acids, drugs, chemicals, syrups, soft drinks, and similar products.

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We are the largest manufacturers of Stainless Steel Drums in the industry. To help solve your metal container problems, our engineers will gladly place their extensive experience and technical knowledge at your service.

U·S·S Steel Drums are also available in galvanized, tinned and painted finishes.

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PETROLEUM IRON WORKS DIVISION, *Sharon, Pa., Beaumont and Port Arthur, Texas*

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UNITED STATES STEEL

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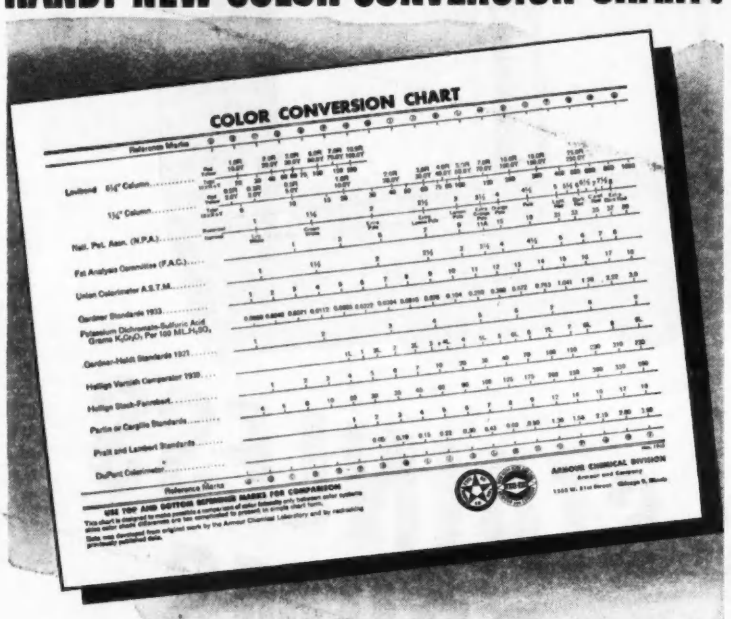


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## L.A. Dreyfuss Co. to Move To N.J. for Tax Reasons

The L. A. Dreyfuss Company, gutta percha manufacturer, Staten Island, N. Y., is erecting three buildings in Plainfield, N. J., and on completion will transfer the company to that site. Walter A. Taylor, president, said the move was being made to escape a tax situation that he described as "particularly onerous," and added that the tax savings in New Jersey would "go a long way toward paying the interest on the investment" in the new property.

## National Lead Names Lutz Head of New Paint Line

John A. Lutz has been appointed production manager for the new line of exterior house paints that the National Lead Company, New York, will produce in two new plants, one in Perth Amboy, N. J., and the other in Chicago. Mr. Lutz, who has been with the titanium division of the company in a technical service capacity for the past ten years, will make his headquarters in New York.

## Fisher Co. to Sell Benzoyl Peroxide for Inorganics, Inc.

Inorganics, Inc., Knoxville, Tenn., has appointed the Fisher Chemical Company, New York, sole agent for the sale of its benzoyl peroxide in the United States. Inorganics, Inc., has been making peroxides for the government for the past four years. The Fisher Chemical Company is headed by J. Robert Fisher, who is treasurer of the Salesmen's Association of the American Chemical Industry.

## Balto. Production Club Against Ads in 'Digest'

The Baltimore Paint and Varnish Production Club has gone on record expressing disapproval of the action of the executive committee of Federation of Paint and Varnish Production Clubs in accepting advertisements for the "Official Digest." Copies of the resolution were forwarded to the secretary of the federation's executive committee and to the secretaries of all constituent clubs.

## Sun Chemical Names Kruse, Godfrey to Western Staff

David D. Godfrey and William E. Kruse have joined the Western sales staff of the Fuchs & Lang Division of the Sun Chemical Corporation, New York, with headquarters in Chicago. Sun Chemical is a division of the General Printing Corporation, New York.

## Insulating Varnish Data On Specifications Issued

*OPD Washington Bureau*

The scientific section of the National Paint Varnish and Lacquer Association has issued supplement 28 to circular 702 covering revised amendments to Federal specifications for insulating varnish.

## Continental Acquires Fibre Can Corp.

Continental Can Company, New York, has acquired the Fibre Can Machinery Corporation, Rutland, Vt., and will operate it under Continental's paper division.

## Clean-Up, Paint-Up Bureau Head Chosen

Shipley D. Burton has been named full-time director of the National Clean-Up and Paint-Up Campaign Bureau, with offices in Washington,

**Shipley D. Burton**

D. C. Ralph W. Emerson, for twenty-three years executive secretary for the bureau, will continue in that capacity but will henceforth devote the major portion of his efforts to the public relations program of the National Paint, Varnish and Lacquer Association. George I. Messinger will continue as assistant director of the bureau.

## Glidden to Double Capacity Of Metal Powders Division

The production capacity of the Metals Refining Company, Hammond, Ind., a division of the Glidden Company, Cleveland, will be doubled at a cost of approximately $250,000 for new equipment for the manufacture of iron, copper and lead powders.

## P.D.George Adds Johnston to Staff

John W. Johnston, formerly of the technical staff of the Sherwin-Williams Company, paint manufacturer, Cleveland, has joined the technical staff of the P. D. George Company, surface coatings manufacturer, St. Louis.

## *Trade Briefs*

**Chicago Paint** Salesman's Club will hold its next meeting February 21.

**Lyle E. Calkins** has been named head of the chemical laboratories of Willy-Overland Motors, Detroit.

**Associated Oil Company,** San Francisco, will construct an office building in Sacramento, Cal., at a cost of $120,000.

**Lead and zinc** data and maps of mines in the Northport Mining District, Wash., are available at the Geological Survey Library, Washington, D. C.; the Survey's regional office, Spokane, Wash., and the office of the Supervisor of the Division of Mines, Olympia, Wash.

## *Plastic, Coldwater Paint, Calcimines Sales: 1945*

Sales of plastic-texture paints, coldwater paints and calcimines, as reported by sixty manufacturers to the Bureau of Census for December and the entire twelve months of 1945, compared with the totals for December and all of 1944:—

**Plastic Paints**

| | December, 1945 | | All of 1945 | |
|---|---|---|---|---|
| | Pounds | Value | Pounds | Value |
| *Total | 1,029,871 | $69,702 | 9,452,256 | $639,770 |

* Includes paste and dry powder plastic-texture paints which can not be shown separately without disclosing the operations of individual companies.

**Coldwater Paints**

| | Pounds | Value | Pounds | Value |
|---|---|---|---|---|
| Exterior, lime or cement-bound | 1,460,715 | $111,854 | 20,970,344 | $1,613,619 |
| casein-bound | 261,706 | 18,922 | 3,900,048 | 250,467 |
| Interior, casein-bound, paste or semi-paste form. | *148,588 | 186,307 | 2,402,387 | 3,158,594 |
| dry-powder form | 735,481 | 56,742 | 7,893,730 | 650,189 |
| glue-bound | 174,902 | 8,466 | 2,668,506 | 113,328 |

* Gallons.

**Calcimines**

| | Pounds | Value | Pounds | Value |
|---|---|---|---|---|
| Hotwater | 658,789 | $29,151 | 11,142,313 | $490,711 |
| Coldwater | 1,100,243 | 56,379 | 14,197,683 | 718,212 |

Sales of these products for December, 1945, and the entire year 1945:—

| | December | Total, 1945 | Dec., 1944 | Total, 1944 |
|---|---|---|---|---|
| Plastic paints, lbs. | 1,029,871 | 9,452,256 | 488,247 | 6,619,894 |
| value. | $69,702 | $639,770 | $35,028 | $476,745 |
| Coldwater paints, value. | $382,291 | $5,786,137 | $391,586 | $7,219,807 |
| Calcimines, lbs. | 1,759,032 | 25,339,996 | 1,833,615 | 25,807,253 |
| value. | $85,330 | $1,214,923 | $80,048 | $1,211,767 |

## OHIO-APEX, INC., Nitro, W. Va.

Manufacturers of PLASTICIZERS and CHEMICALS

**KRONISOL, (Dibutoxy Ethyl Phthalate)**
**(Dibutyl "Cellosolve" phthalate)**

**KRONITEX AA, (Tricresyl Phosphate)**

**METHOX (Dimethoxy Ethyl Phthalate)**
**(Dimethyl "Cellosolve" phthalate)**

**ETHOX, (Diethoxy Ethyl Phthalate)**
**(Di "Cellosolve" phthalate)**

**DIOCTYL PHTHALATE**

**KAPSOL, (Methoxy Ethyl Oleate)**

**KP-23, (Butyl "Cellosolve" Stearate)**

**PHOSPHORUS TRICHLORIDE**

**PHOSPHORUS OXYCHLORIDE**

**ANHYDROUS ALUMINUM CHLORIDE**

*Samples and data on request*

"Cellosolve" "Kronisol" "Kronitex", "Methox" "Ethox" and "Kapsol" are trademarks

For inorganic phosphorus products, represented by Joseph Turner & Co., Ridgefield, N. J.
For plasticizers, represented in New York, New Jersey and Connecticut by Stoney-Mueller, Inc. Lyndhurst, N. J.



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## SODIUM OLEATE

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**ALUMINUM STEARATE**
**CALCIUM STEARATE**
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*Micron-sized dust, grit free*

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*Disperses easily in water*

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MINES AND PLANTS IN THREE STATES



AHCO PRODUCTS

## METHYL CELLOSOLVE STEARATE

**METHYL CELLOSOLVE STEARATE** is a synthetic ester and is used as a plasticizer for cellulose derivatives and for resins. The following data may suggest other uses.

| | |
|---|---|
| Chemical formula | $C_{17}H_{35}COOCH_2CH_2OCH_3$ |
| Molecular weight | 342 |
| Color (platinum cobalt scale) | 175 |
| Melting point | 64° to 70°F |
| Flash point | 378°F |
| Acidity | less than 1.0 mg. KOH per gram ester |

★

## BUTYL STEARATE

**BUTYL STEARATE** is a synthetic ester and is used as a plasticizer in cellulose and polyvinyl derivatives, also for cosmetics and for paper coating. The following data may suggest other uses.

| | |
|---|---|
| Chemical formula | $C_{17}H_{35}COOC_4H_9$ |
| Molecular weight | 341 |
| Color (platinum cobalt scale) | 130 |
| Melting point | 64° to 70°F |
| Flash point | 358°F |
| Acidity | less than 1.0 mg. KOH per gram ester |
| Saponication number, | 171-179 mg. KOH per gram ester |

**ARNOLD-HOFFMAN & CO., INC.**
*Manufacturing Chemists*
PROVIDENCE, R. I.
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BOSTON — Moloney & Griffin
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CINCINNATI — Devlin & Sprietsma
CLEVELAND — S. S. Steiner
DETROIT — C. W. Hoyt Co.
HOUSTON — Jos. Graham Co.
KANSAS CITY — John T. Kennedy Sales Co.
LOS ANGELES — Pitts & Loughlin
MONTREAL, CAN. — Canada Company Ltd.
NEW ORLEANS — E. P. Lestrapes
PHILADELPHIA — Isaac S. Gilmour, Inc.
PITTSBURGH — Jos. A. Bruno
PORTLAND, ORE. — Miller & Tokheim Chemical Co.
SAN FRANCISCO — S. M. Wells
ST. LOUIS — Henry G. Knapp
SEATTLE — Carl P. Miller & Co.
TORONTO, CANADA — A. S. Paterson

## Trade Accord Signed By Mexico and Canada

Mexico and Canada have signed a trade agreement, the first ever concluded between the two countries, by which Canada grants Mexico the most favored nation treatment, which eliminates the payment of high tariff for the importation of Mexican goods. This is designed to encourage Mexican purchase of Canadian articles.

## Beacon Products Co. To Open New Plant

The Beacon Products Company, manufacturer of household cleaners and bleaches, Philadelphia, will open its sixth and newest plant in Jacksonville, Fla., about February 25. Francis W. Farnsworth, formerly assistant State chemist of Florida, has been named general manager of the new plant.

## *Promoted by Calco*

Ames B. Hettrick has been appointed assistant manager of the pigment department for the Calco Chemical Division of the American Cyanamid Company, Bound Brook, N. J. Mr. Hettrick, former vice-president and general manager for the Virginia Chemical Corporation, Piney Ridge, Va., was named manager of the titanium dioxide plant there when Virginia was acquired by Calco. He will continue to make his headquarters at Piney Ridge.

## General Mills Names Kyser, Bryant to New Posts

George H. Kyser, chief chemist at the Belmond, Iowa, plant of the General Mills Inc., Minneapolis, has assumed the additional duties of superintendent of the oil refineries at Belmond. Roy W. Bryant, formerly traffic manager for the company's mill in Oklahoma City, has been named traffic manager of the soybean processing plant at Belmond.

## Fisheries Firm Formed By Allen T. Sherman

The International Fisheries Corporation has been formed by Allen T. Sherman, formerly vice-president in charge of the foreign division for the Atlantic Coast Fisheries, New York. The new company will have offices at 62 William street, New York.

## Pierce Joins Trask Co.

John H. Pierce, formerly with the Tanners' Research Laboratory, Cincinnati, has joined the laboratory staff of the Arthur C. Trask Company, oils and waxes, Chicago.

## *Washington Talks It Over*

*—Continued from page 5*

destruction wrought during the Jap occupation has been underestimated to a considerable extent. Mines have been flooded, barges sunk and other damage done that is delaying resumption of operations at these mines. The biggest need is for dredges to clear away the debris, and the U. S. is, as one official puts it, "moving heaven and earth to find this equipment."

It all adds up, it is said, to a situation in tin that is going to need government supervision and control for a long time, not only as to imports, but to the uses made of the metal as well.

## Drug Stores Hints

Helpful hints to prospective proprietors of retail drug stores is one of the new services being offered to returning war veterans and others interested by the Department of Commerce. A five - page mimeograph leaflet, just prepared by S. F. Samuelson of the Drugs and Pharmaceutical Unit, gives an idea of what the newcomer should look for and guard against in making a success of this business.

Right now it appears to be as good a time as any to get into this line. Sales and profits are at a good level, which will continue in all probability until slowed down by the opening of new stores as reconversion to a peacetime status proceeds. But after that competition will be keener than ever, and the druggist will need more than just the knowledge of compounding drugs to keep out of the red.

He not only will be facing the competition of chains, department stores, variety stores, cigar stores, confectionery stores, liquor stores and even restaurants, but in the future there will be added to all this, intensified competition from, Mr. Samuelson says, gas stations and from supermarkets. The druggists of the future will of necessity have to be all-round merchandiers.


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*Tackifier for GR-S*

**Koresin,** t-butyl phenol-acetylene condensate, is available from pilot plant production. It is highly regarded as a tackifier for Buna-S and has been suggested for use in varnishes.

**GENERAL PROPERTIES:**

**Melting Range:** 115-130°C.
**Color:** Tan-Brown.
**Soluble in:** Hydrocarbons, drying oils, ketones, esters, sec-butanol.
**Compatible with:** GR-S, oil soluble phenolics, coumarone-indene resins, polyvinyl butyral, polyvinyl chloride, methyl methacrylate, ethyl cellulose.
Available in 350-pound Fiberpaks.

Inquiries from rubber fabricators, manufacturers of paints and varnishes, and others are welcomed.

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# Oils, Fats, and Waxes

Highlight of the week was the announcement by the Department of Agriculture of the allocation of 3,000 metric tons of soybean oil for export to Greece in exchange for an equal quantity of olive oil for importation into the United States. An allocation of 1,500 tons is being made for the January-March quarter and the balance for April-June. Applications for export licenses for the shipment of soybean oil to Greece should be sent to the Office of International Trade, Department of Commerce, Washington (25), D. C. In addition to the export licenses, exporters will be required to obtain a certificate of subsidy clearance from the Department of Agriculture, which will be issued by the Commodity Credit Corporation's office in New York City upon the payment of a refund of the domestic subsidy of 3¾c. per pound of crude oil or 4c. per pound of refined oil.

Another announcement of interest was the increase of price ceilings by OPA for No. 1, No. 3 and dehydrated-bodied castor oils and castor pomace, effective February 18. The higher prices resulted in the resumption of deliveries by producers of castor oil against a large backlog of orders and also brought forth a large number of new orders which could not be covered because of the limited supplies of oil. New maximum import price for castor beans was set at $118 per ton, c.i.f. New York.

## Cottonseed Oil

Business was quiet and featureless and restricted to scattered sales at ceilings during the week. Consuming demand was urgent with offerings of all grades scarce.

Oil consumption amounted to 232,222 barrels during January, compared with 164,618 barrels in December and 285,507 barrels, January last year. Visible supply of seed and oil was estimated at 1,703,700 barrels in January against 2,114,000 barrels a year ago.

Bleachable oil prices follow:—

| | Cents per pound in tanks | | |
|---|---|---|---|
| | High. | Low. | Close. |
| March | .... | .... | 14.31 nom. |
| May | .... | .... | 14.31 bid |
| July | .... | .... | 14.20 bid |
| September | .... | .... | 14.00 bid |
| October | .... | .... | 14.00 nom. |
| December | .... | .... | 14.00 nom. |

Total sales, none.
Cash, 14.31 nom.
Crude, Southeast, 12¾c.; Valley, 12¾c.; Texas, 12½c. f.o.b. works (all ceiling prices).

## Linseed Oil

Advices from Uruguay stated that an agreement has been reached whereby Uruguay will sell to the United States the balance of the 1944-45 linseed crop and the exportable surplus of the 1945-46 crop. The price of the new crop linseed was established at $2.27½ per bushel, f.o.b. Montevideo,

This was good news to Eastern linseed crushers, who are in dire need of seed. Unless seed from the Argentine or Uruguay is received in sizable quantities before the early part of March, mills in the East will be compelled to shut down, according to crushers.

Because of the scarcity of oil, crushers were delivering small quantities of oil only against their backlog of orders. Paint makers and other consumers were unable to obtain this oil, except in limited quantities, on outstanding orders and many paint manufacturers, it was reported, may be compelled to cease production by April 1 unless relief is forthcoming.

*Minneapolis, Feb. 13.*—Linseed oil situation was little changed, crushers having little or nothing for sale. Buyers continued to press for additional offerings.

Shipments of linseed oil, in pounds, were as follows:—

| | 1945-46 | 1944-45 |
|---|---|---|
| This week | 6,460,000 | 4,740,000 |
| Since Sept. 1 | 158,320,000 | 138,900,000 |

**Flaxseed**—Light offerings of seed continued to restrict business. Crushers were in the market for all positions.

*Minneapolis, Feb. 13.*—The flax situation continued depressing because of the lack of freight cars to move flaxseed. Receipts fell to new season low levels.

| | Receipts 1945-46 | | Shipments 1944-45 | |
|---|---|---|---|---|
| This week | 48,000 | 10,500 | 18,500 | 7,500 |
| Since Sept. 1 | 16,893,000 | 9,055,000 | 3,406,500 | 1,422,500 |

*Buenos Aires, Feb. 15.*—Flaxseed shipments totaled 79,000 bushels to the United States. Visible supply of seed was reported at 4,331,000 bushels. Seed was quoted at $1.66 per bushel, f.o.b. steamer.

## Market Trends

**Prices Advanced**

Wax, bees, African, crude, 2c. per lb.
ouricury, 5c. per lb.

**Prices Reduced**

None

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 193.3 | 193.3 | 193.3 | 193.3 |

*(For Current Prices see page 9)*

## Other Vegetable Oils

**Castor Dehydrated**—Higher price ceilings on castor oil and castor pomace and a maximum import price on castor beans and oil were announced by OPA, to become effective February 18. No. 1 and No. 3 ceilings were increased 1¼c. per pound, and dehydrated bodied oil at 1½c. per pound and castor pomace $1.75 per ton. The increase advanced No. 1 castor oil to 14.30c. per pound and No. 3 to 14c. per pound, tankcars New York delivery. Dehydrated bodied oil was boosted to 19.35c. per pound, tankcars, same basis. New Maximum import price for castor beans was set at $118 per ton, c.i.f. New York. Producers resumed the delivery of oil against a heavy backlog of orders at the new ceilings, but were not accepting new business owing to limited supplies. Arrivals of 1,360 drums of castor oil were noted from Brazil against former contracts during the week.

**Oiticica**—Advices from Brazil indicated further tightening of the market there, with sellers limiting offerings of oil to April-July shipment and at their option. Inquiry was keen, with trading reported quiet. Demand for spot supplies continued urgent and unsatisfied. Stocks here were practically cleaned up. Imports were noted at 223 drums for delivery on prior orders during the week.

**Olive**—Announcement of the allocation of 3,000 metric tons of soybean oil for export to Greece for an equal quantity of olive oil to be imported from that country was made by the Department of Agriculture, February 11. Allocation of 1,500 tons is being made for January-March quarter and the balance for April-June. Applications for export licenses for the shipment of soybean oil should be sent to the Office of International Trade, Department of Commerce, Washington (25), Washington, D. C. In addition to export licenses certificates of subsidy clearance are required by the Department of Agriculture. Certificates will be issued by the CCC office in New York City upon the payment of a refund of the domestic subsidy of 3¾c. per pound for crude oil or 4c. per pound for refined oil. It is understood

### *Uruguay Linseed Crop Sold to U.S.*

*Montevideo, Feb. 11*

Comtelburo, Ltd., British-American news agency, reports that an agreement has been reached whereby Uruguay will sell to the United States the balance of the 1944-45 linseed crop and the exportable surplus of the 1945-46 crop. The price for the new crop is represented as $2.27½ per bushel, f.o.b. Montevideo, or the equivalent of 13.46 Uruguayan pesos per 100 kilos. The price valuation on the old crop has not yet been fixed—probably because the United States is endeavoring to get the preferential exchange rate on this transaction.

***For Late Market Developments, See Page 4***


STEARIC ACID
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FATTY ACIDS
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(Hydrogenated
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*Available in either cake or flake form*
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OPD—2-18-1946 75

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*Codes: Yoppa Robinsons, Bentleys ABC, 5th Edition Peerless*



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In addition to our regular items of crude and refined coconut oil in drum and tank-car lots, we now proudly offer these coconut oil fatty acids, product of half a century of experience and research.

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311 CALIFORNIA STREET, SAN FRANCISCO, CALIF.


that the Greek Government will issue export permits to normal olive oil exporters, and prices will be within prevailing OPA ceilings.

**Soybean**—Active demand continued for domestic use and for export. Trading was light and spasmodic. Production of crude totaled 118,146,000 pounds and consumption 97,936,000 pounds in December. Stocks at the end of December were 133,937,000 pounds. Refined oil production was 91,396,000 pounds, and consumption 81,680,000 pounds in December and stocks were 71,090,000 pounds on December 31.

## Fats and Greases

**Greases**—While production was increased, it was reported it had not as yet reached the volume preceding the strike at the plants. Demand was urgent and offerings were absorbed at ceilings.

**Lard**—Amendment 26 to WFO 75.3 provided that the lard set-aside required of Federally-inspected packers be increased from 3½ percent to 5 percent of the live weight of hogs and extended to additional States, effective February 10. Inquiry for domestic use and for export continued urgent during the week. Offerings were light and trading moderate and spotty.

## Fish Oils

**Menhaden Oil**—Demand active and unsatisfied owing to the scarcity of supplies. Sellers were unable to accept new business. Stocks were held for delivery against former orders.

**Sardine**—Inquiry continued keen though business was quiet because of the light supplies. Market firm at ceilings.

*Los Angeles, Feb. 13.*—Demands for fish oil continue to exceed the supply. Bad weather swept southern California last week, resulting in poor fishing conditions. California Sardine Products Institute reported 387,335 tons of sardines landed to February 2, against 530,289 tons a year ago.

## Cake and Meal

**Cottonseed Meal**—Production is steadily going down while demand is stronger than ever.

**Linseed Meal**—Production moving as fast as available against former contracts.

*Minneapolis, Feb. 13.*—Demand for linseed meal continued brisk. Production was sold up, with little or no surplus stocks available.

Shipments of linseed meal, in pounds, were as follows:—

| | 1945-46 | 1944-45 |
|---|---|---|
| This week | 7,080,000 | 4,560,000 |
| Since Sept. 1 | 228,040,000 | 193,360,000 |

## Waxes

**Beeswax**—African crude was firmer under a good demand for shipment which advanced quotations. Spot supplies also were higher and increased 2c. per pound. South American was unchanged and firm. Refined was steady and unchanged.

**Carnauba**—Consumers were in the market and purchased a sizable total at former levels. Offerings for shipment were mainly for moderate quantities. Supplies were still light on the spot and well maintained at current levels.

**Ouricury**—Scarcity of supplies and an active demand further boosted quotations about 5c. per pound during the week. Recent purchases of crude were of poor quality and refining loss has been heavy, according to local refiners. Crude wax was higher at $1 to $1.05 per pound in ton lots, and refined at $1.15 to $1.20 per pound, same basis, on the spot.


**E. A. BROMUND COMPANY**

Beeswax
Carnauba Wax
Ceresine Wax
Ouricury Wax

258 BROADWAY, New York 7, N.Y.
BArclay 7-8445 Est. 1880



*NEW*
HIGH MELTING MICRO-CRYSTALLINE PETROLEUM WAXES in *POWDER* FORM

INDUSTRIAL RAW MATERIALS CO.

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FATTY ACIDS

Extra Light Color

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MICRO-CRYSTALLINE PETROLEUM WAXES
CERESINE - - OZOKERITE
SPECIAL WAX BLENDS

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**CROWN WAX 1035**
(AMERICAN OZOKERITE)

Melting Point ASTM 195-200° F.
Penetration 100 Grams ½ to 2. Color 3 to 3½ N. P. A.

**PETROLITE CORPORATION, LTD.**
— WAX DIVISION —

*Refinery:* Kilgore, Texas
*Sales Office:* 29 Broadway, New York 6, N. Y.

HIGH MELTING POINT

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PARAFFIN WAX

PRODUCT OF
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**PETROLEUM SPECIALTIES, Inc.**

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OPD—2-18-1946 77

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Measures, Weighs, Mixes
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Fatty Acids
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Special Fatty
Acids for Rubber
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## AMORPHOUS WAXES

For Laminating Paper
Melting Points 126° F. to 170° F.
COLOR: DARK AMBER

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HIGH MELTING POINT WAXES

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WAXES IN TON OR CARLOAD LOTS

*Prompt shipment of most materials on receipt of your order. Write us for samples and price quotations.*

**The Microwax Corporation** 70 EAST 45th STREET NEW YORK 17, N. Y. MURRAY HILL 6-7895

# A STATEMENT

by

## Mr. Fred R. Firstenberg

President of the

**FIRST MACHINERY CORP.**

●

Some months ago, the New York Housing Authority confiscated our building to make way for a model housing project. The time has now come to vacate. Every practical business man will appreciate our decision to sell every piece of equipment we own instead of removing it to our new headquarters; the quickest way was an absolute, unrestricted Public Auction.

Therefore, we have turned over our entire stock and our machine shop and rebuilding facilities to be sold by the Industrial Plants Corp. (see below).

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*A New and Greater*

**First Machinery Corp.**

**will be established at**

**157 HUDSON ST.**

**New York 13, N. Y.**

We have acquired a tremendous building at a spot in New York City, easily accessible from every part of New York and New Jersey. Every Subway has a station near-by and we are preparing greatly augmented facilities to serve you on a far grander scale. The First Machinery Corp. business will NOT STOP for one minute. We are prepared to supply you with Good, New or Rebuilt Equipment as before and more than ever we are interested in your SURPLUS units. A Formal Announcement and Invitation to visit our premises will shortly appear in these columns.

**MEANWHILE**

**ADDRESS US AT OLD LOCATION**

FIRST MACHINERY CORP.

EAST 9th STREET AND EAST RIVER DRIVE
NEW YORK 9, N. Y. GR. 7-4300


# Business Wants and Offers

RATES PER INSERTION—PAYABLE IN ADVANCE

**Help Wanted and Positions Sought**—Minimum $2.00, thirty-six words or less; 35c for each additional six words.

**All Other Classified Advertisements**—$5.00 thirty-six words or less; 85c for each additional six words or fraction.

### AGENCIES OFFERED

**Chemical brokers** wanted for the following items, carloads or l.c.l.: Copper oxides, copper hydroxide, cupric ammonium carbonate (other copper compounds). Advise territory wanted and volume of trade. Federal Laboratories, Inc., P. O. Box 268, Pittsburgh 30, Pa.

### AGENCIES WANTED

**Cincinnati firm** would be interested in representing in this section producers of materials used in the soap industry. OPD 678.

**Technical sales representatives,** St. Louis and vicinity. Staff of experienced chemists, microbiologists and chemical engineers seek additional accounts. OPD 680.

### EQUIPMENT OFFERED

**For Sale:** 250 gallon stainless steel clad jacketed still with two stainless steel condensers and plain steel 90 gallon receiver; equipped with 2 H.P. explosion-proof motor and anchor type agitator; practically new—condition excellent—available immediately. OPD 691.

### EQUIPMENT WANTED

**Wanted:** Stokes or Colton automatic tube-filling and closing machine. Wire details Craftint Manufacturing Co., 210 St. Clair avenue, N. W., Cleveland, Ohio, or phone Main 8843.

**Wanted—Laboratory** roller mill—3 roll, new or used. Advise full particulars. OPD 694.

### FORMULAS WANTED

**Dry cleaning** soap formulas wanted. We wish to buy formulae to make up a high grade liquid dry cleaning soap, spotting materials, etc. Finished products must compare favorably with leading soaps and spotters on the market. Anyone free to apply as we have not to date been engaged in this industry. OPD 693.

### MATERIALS WANTED

**Will purchase** entire output of coal-tar or water-gas tar. Have facilities for immediate removal and storage. Address OPD 646.

**Will purchase** your surplus stock of chemicals, drugs, oils, waxes, dyes, solvents. Are you overstocked due to formula change or government cancellations? Write fully. Will make immediate offer. OPD 647.


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*As in Years Past . . .*

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*are invited to*

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*"Open House"*

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**HOTEL BELMONT PLAZA**

*Crystal Room — Second Floor*

**LEXINGTON AVE at 49th STREET**

**Monday to Friday**

**February 25—March 2nd**

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**YOUR IDLE MACHINES**
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FOR OVER A QUARTER CENTURY A SYMBOL OF CONFIDENCE

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1—5' dia. Copper Jacketed Pan, agitated.
1—Lab. Vallez Filter.
2—Zaremba All-Copper Evaporators, 500 sq. ft. each effect.
1—No. 2 Sweetland Filter.
1—Sperry 24" x 24" Filter Press, closed delivery, 15 Rubber-Covered Plates and Frames.
1—American 6' 2 Disc Rotary Continuous Filter.
6—Oliver 8' x 6' Rotary Hopper Dewaters. NEW.
1—Oliver Robison 6' x 4' Top Feed Ni-Resist Filter.
2—Oliver Filters, 3' x 1', 5' x 8'.
1—40 gal. Pony Mixer.
3—Stokes Rotary Vacuum Dryers, 1'6"x3'6", 30"x10', 5'x33'.
1—Buffalo Lab. Vac. Double Drum Dry'er, 6" stainless steel rolls.
1—Stokes 48" x 72" Atmos. Double Drum Dryer.
2—6' x 27'6" Rotary Steam Tube Dryers.
1—5-Roll Raymond Mill.
2—American 16" x 40" 3 Roller Mills, water cooled, motor driven.
1—Kent 13" x 32" Super-Five Roller Mill, motor driven.
4—Stokes Rotary Band BB Tablet Machines.
5—Stokes, Colton, Mulford Single Punch Tablet Machines, 3B, 3D and "F".
3—Tyler Hummer Screens, 3' x 5' 4'x5'.
3—Hardinge Ball Mills, 4½' x 24", 4½' x 16", 2' x 8".
7—Pebble Mills, 50, 100, 280 gal.
2—Moss Colloid Mills, Stainless Steel, 3 H.P.
1—Hurrell Colloid Mill, motor driven.
5—Copper Vacuum Pans, 30", 42", 48", 5' and 6' dia.
1—Portable Revolvator, 1800 lb., motor driven.
1—Day 600 lb. Jacketed Powder Mixer, motor driven.
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4—Pfaudler Jktd. Agtd. Kettles, 65, 125, 200, 500, 750 gal.
2—60 and 125 gal. Alum. Jktd. Kettles.
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8—Steel Jktd. Kettles, 600 to 1,200 gal., some agitated.
1—80 gal. Dopp Jacketed, Agitated Kettle.
1—Day "Howard" type 400 gal. Steel Jacketed, Agitated Kettle.
1—Copper Varnish Kettle, 175 gal
2—1,750 gal. Lead Lined Closed Tanks.
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3—Powder Mixers, 100 to 800 lb.
4—W. & P. Mixers, 9, 20, 100 gal.
1—Howes 24" x 12" Powder Mixer
1—Williams No. 1 Hammer Mill
1—Kiefer Mono Piston filling machine.
2—Stokes & Smith and National, 1 and 2 Station Powder Fillers.
5—World, Ermold, National Labelers.
1—60 gal. Cast Semi-Steel Autoclave, agitated, 3" wall.
6—Shriver, Sperry Filter Presses, 36", 32", 30", 24", 18", 12".
5—Shriver Wood Filter Press Skeletons, 24" to 42".
4—Sharples No. 6 Centrifuges, open, Lab., and Presurtite.
3—De Laval No. 300, 600, 700 Clarifiers.
1—Tolhurst 40" Suspended type, Bottom Discharge Centrifugal, solid basket, M.D.
5—Tolhurst 20", 40", 48" Self Balancing Type Centrifugals
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3—Read 100 gal. Double Arm Steam Jacketed Mixers, practically brand new.
1—Day Imperial Double Arm Mixer, 20 gal.
3—Day 18" Pressure type ointment mills.

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800 ft. of Lamson & Matthews Heavy Duty Roller Conveyor, 22" to 26".
10—12" Belt Conveyors, 20 to 50' centers, built to specifications
800 HP of Motors, 10 to 150 HP, Westinghouse, 3/60/440 volt, 440 to 860 RPM.
4—Rotary Kilns, 8' x 100', 9' x 70', 9' x 65', 6' x 60'.
1—Hersey Rotary Dryer, 5' x 30'.

*Partial List only. Your inquiries solicited. Send us your lists of surplus equipment.*

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**Quotations and samples wanted** on fluorescent dyestuffs. Address OPD 685.

**Any quantities,** refined corn sugar (cerelose, clintose, dextrose). Urgently wanted for important pharmaceutical product. OPD 688.

**Do not wait until conditions further** limit prospects of disposing of top-heavy inventories. Will purchase surplus unshipped commodities, all kinds. Particularly interested in gums, waxes, spices, botanicals, oils, greases, pharmaceuticals, chemicals. OPD 649.

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**Chemical engineer or chemist capable of** managing production of fine organic chemicals. Small, progressive, alert company in N.Y.C. Splendid future for properly trained man. OPD 627.

**Paint and varnish chemist:** Medium size, well-known and progressive Eastern manufacturer has a really good opportunity to offer for a man who has general all-around experience with shelf goods, varnishes and industrials. Excellent salary and bonus arrangement. Rest assured your replies will be held strictly confidential. Our employees know of this ad. OPD 669.

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Stainless Steel Tanks—new—100 and 200-gal. dished bottoms with stands.
Steam Jacketed Kettle, 9' dia., 5' deep, with agitator (new).
Copper tank with agitator and coil, 66" dia. x 7' high.
2—International Centrifuges, Size 3, Type F.S., Stainless Steel with Motors & Starters.
Copper Evaporator with Stokes Condenser.
Shriver Filter, 24", open del., 25 plates, cast iron.
1 Stokes and 1 Devine Vacuum Pump.
2—Copper Percolators.
Stainless Steel Vert. Tank, 7' dia. x 10', No. 430 Chrome.
Colton Capsule Machine with Dies.
6—De Laval Imo Pumps, 2" suc., 2" disch., new.
Sterilizers or Pressure Cookers (new), 18" x 18" on steel legs with gasoline burner, clamp-down cover, safety valves and gauge—$75.00 each.
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1—No. 6 Sharples 3 H.P. Centrifuge.
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25—New Stainless Steel Tanks, 100 to 1,000 gals.
1—150 gal Copper Jack. Kettle.
800-ft. Ball Bearing Roller Conveyor, 12" & 15" wide, 10-ft. lengths.
12—Filter Presses, Iron, Wood and Rubber 15" to 42" sq.
1—Cumberland Size O Rotary Cutter, 1 H.P. motor.
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6—20, 35, 75 & 250 gal. closed, agit. jacketed Copper Kettles.
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PONY MIXERS from 2½ gallons to 40 gallons
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# Industrial Centrifugal

Model A-00
10 h.p. Explosion Proof Motor
220 volt—3 phase—60 cycle
Automatic Controls

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# Stainless Steel Vacuum Still

Jacketed
50 Gallon Capacity

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# MACHINERY and EQUIPMENT

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# SEE

Pages 17 and 18

## Industrial Plants Corp.

90 WEST BROADWAY
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## LARGE CHEMICAL PLANT

**Equipment so diversified adaptable for many broad varieties of Chemical and Industrial Plants and processes.**

### MAIN ITEMS

4—84" dia. RECTIFYING COLUMNS—1-all copper, 15' high, 15 plates; 2-all copper, 23' 6" high, 28 plates; 1-steel, 30' 6" high, 9 plates.
15—54", 48", 42", 40", 30" and 24" copper COLUMNS.
With above: Still Pots, Piping, Condensers, Pre-heaters, Calandrias, complete Foxboro Instrument Panel, etc.

1—Copper TRIPLE EFFECT EVAPORATOR, vertical tubes, 2000 sq. ft. per effect.
46—CONDENSERS, 43-¾"x8'7" steel shells, 150 1-½"x17' l. copper tubes.
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30—STEEL TANKS, horizontal and vertical, 22,500 gal. to 1200 gal. Ask for list.
18—Coco motor driven BRONZE CENTRIFUGAL PUMPS, 2½x2; 6½x1.
11—STEAM PUMPS, 20x14x18 to 4x4x5.
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1—200 K.W. Allis Chalmers ENGINE GENERATOR SET, non-condensing, 3/60/480 volts.
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1—Baldwin 27 ton Saddle Tank LOCOMOTIVE, std. gauge, 6-wheel.
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### COMPLETELY EQUIPPED SAW MILL

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1—O & S, std. gauge, 8-wheel Steam LOCOMOTIVE CRANE, 36' latticed boom, ¾ yd. clamshell bucket.
2—10 ton and 1-6 ton, hand BRIDGE CRANES, 45', 38', 21' span.
MACHINE SHOP—Lathes, Bending Rolls, Shaper, Planer, Milling Machines, Emery Grinders, Power Hack Saw, Drill Presses, Pipe Machines.
ELECTRICAL EQUIPMENT: 10 TRANSFORMERS, 250, 200, 75, 10 K.V.A.
Large number of MOTORS, 1 HP to 150 HP, 3/60/440 and 2300 volts, induction and slip ring. Send for list.
106—80,000-lb. FLAT CARS.
Approx. 14 miles of standard gauge 56-lb. and 45-lb. RAIL.
Iron, Brass, Copper, Aluminum PIPE, FITTINGS, VALVES, 1" to 12".

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60—Retort-Coolers, steel plate.
Complete Charcoal Iron Blast Furnace.
Air Compressors, Speed Reducers, Double Arm steel Drum Cleaner, Buffalo electric Barrel or Drum Filler, Recording Instruments.
Miscellaneous: Large assortment of tools, wrenches, hammers, drills, torches, jacks, reamers, hoists, fans, valves, fittings, bolts, nails, railroad car supplies, shafting, pulleys, hangers, belting.

*ASK for your copy of PRINTED CIRCULAR listing everything in detail.*

**WIRE — PHONE — WRITE**
*All Inquiries to*

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*New York Agent:*
CONSOLIDATED PRODUCTS COMPANY, INC.
13-18 Park Row, New York 7, N. Y.

# Business Wants

## POSITIONS VACANT

**Salesman wanted** for three new rust preventive products. Good opportunity. Salary and commission. References. State age and former experience. OPD 684.

**Chemicals.** Buyer for large export-import house. Exceptional opportunity for experienced man. State full particulars. OPD 692.

**Technical salesman** for territory of metropolitan New York and vicinity to sell lacquer and synthetic coatings. Familiarity with coating cloth and a general knowledge of rubber manufacturing preferred. Reply OPD 673.

**Wanted: Man,** preferably chemist, who understands practical manufacture and sales of lubricating greases and specialty metal-working oils and compounds. To right person we offer substantial interest with no capital investment required. Fully equipped factory ready to run. OPD 670.

**Production chemist** to make complete line of household products, self-polishing waxes, furniture polishes, cleansers, etc., with plant located in Birmingham, Alabama, having national distribution. Prefer married man not over 40. This is a splendid opportunity with young, growing concern for a man to take full charge and grow with company. Please give full particulars as to background, salary, availability, in first letter. Confidential. OPD 655.

**Manufacturing chemist:** Experienced in formulating floor waxes, miscellaneous polishes, and other chemical specialties. New York area. Give details of self, experience, and starting salary expected. OPD 648.

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## *Trade Briefs*

**Standard Oil Company of California** plans the construction of a new sulphur dioxide-treating plant at the El Segundo Refinery.

**J. H. Dunn** has been elected president of the Shamrock Oil & Gas Company, Pittsburgh. Mr. Dunn succeeds H. C. Fownes, retired.

**Superior Plating Works** has been established in San Diego, Cal., by Herman R. Wiseman, Clyde A. Swendsen and Reuben H. Fleet.

**Atlantic Refining Company,** Philadelphia, Pa., elected Richard Rollins, director of public relations, as secretary of the company.

**T. S. Gay,** assistant secretary of Phillips Petroleum Company, New York, has been elected a vice-president of the company.

**Shell Oil Company,** San Francisco, has named Norman J. McGraw a general vice-president for territory East of the Rocky mountains.

**Strathmore Paper Company,** West Springfield, Mass., has elected George E. Williamson president. He was formerly vice-president and treasurer.

**California Standard Oil** has elected C. E. Finney, jr., as a vice-president. For the past year he has been assistant vice-president for manufacturing.

**General Aniline & Film Corporation,** New York, has appointed Wilfred L. Davis as manager of the Ansco Division paper plant.

**Phillips Petroleum Company,** Bartlesville, Okla., has completed two wells, capable of producing 800 barrels of oil daily, in the Rangeley, Col., field.


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1—Colton No. 5 tube and jar filler
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